

SOUTHERN AFRICAN HIV CLINICIANS SOCIETY GUIDELINES FOR ANTIRETROVIRAL THERAPY IN ADULTS: **2020 UPDATE**

Protease inhibitor-based second-line regimens

- Choice of boosted PI in second-line ART:
 - DRV/r (800 mg/100 mg) > ATV/r (300 mg/100 mg) > LPV/r (400 mg/100 mg).
 - DRV/r and ATV/r cannot be given with RIF; instead use double-dose LPV/r, or switch to DTG if possible, or use RFB instead of RIF.

Switching patients on PI-based second-line regimens to a DTG-based regimen: Guided by VL

First- and second-line reg- imen: Prior ART exposure	Second-line options	 VL > 50 copies/mL: Switching to a DTG-based regimen is not advised Provide adherence counselling, and consider switching if the VL is suppressed If the VL is still elevated, then a resistance test for third-line regimens may be indicated.
First-line TDF + 3TC (or FTC) + NNRTI and sec- ond-line AZT + 3TC + PI/r	 Can continue the same regimen or switch to AZT + 3TC + DTG 	
First-line AZT (or d4T) + 3TC + NNRTI and sec- ond-line TDF + FTC + PI/r	 Preferably stay on the same regimen If resistance testing was performed at first-line failure and showed full susceptibility to TDF, then it is possible to switch to TDF + 3TC (or FTC) + DTG If no resistance test was performed, but there is intolerance to all boosted PIs, then consider switching to TDF + 3TC (or FTC) + DTG with close virological monitoring (3-monthly) for the first year. 	

3TC, lamivudine; ART, antiretroviral therapy; ATV/r, ritonavir-boosted atazanvir; AZT, zidovudine; d4T, stavudine; DRV/r, ritonavir-boosted darunavir; DTG, dolutegravir; FTC, emtricitabine; LPV/r, ritonavir-boosted lopinavir; NNRTI, non-nucleoside reverse transcriptase inhibitor; PI, protease inhibitor; PI/r, ritonavir-boosted protease inhibitor; RIF, rifampicin; RFB, rifabutin; TDF, tenofovir disoproxil fumarate; VL, viral load.

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