ADULT HIV AND TB DRUG DOSING

INCLUDING RENAL DOSE ADJUSTMENTS

May 2024, Version 3

ANTITUBERCULOUS DRUGS					ANTIRETROVIRALS						
When used as fixed-dose combination:						Standard adult dose		eGFR 30- 50 mL/min	eGFR 15-30 ml /min	eGFR < 15 mL/min	
Treatment phase	Intensive phase - daily for 2 months	Continuation phase – daily for 4 months		eGFR < 30 mL/min	Abacavir				Unchanged	Unchanged	
Body weight (kg)	RHZE (150,75,400,275)	RH (150,75) RH (300,150) 2 tablets		RH: Unchanged. RHZE: Dosing adjustment needed for	Atazanavir/ritonavir	300 mg/100 mg daily Cannot be used with rifampicin. Replace rifampicin with rifabutin, and adjust the dose of rifabutin to 150 mg daily. Continue standard dose of atazanavir/ritonavir.		Unchanged	Unchanged	Unchanged	
25 – 37.9 kg	2 tablets					600 mg/100 mg 12 hourly OR 800 mg/100 mg daily					
38 – 54.9 kg	3 tablets	3 tablets		pyrazinamide and ethambutol. See individual agents below.	Darunavir/ritonavir	(depending on mutations) Cannot be used with rifampicin. Replace rifampicin with rifabutin, and adjust the dose of rifabutin to 150 mg daily. Continue standard dose of darunavir/ritonavir.			Unchanged	Unchanged	
55 – 70.9 kg	4 tablets		2 tablets	individual agents below.							
≥ 71 kg	5 tablets	2 tablets				50 mg daily					
When used as single agents: (for severely underweight patients please consult the Hotline)						If also on rifampicin: boosting of DTG required. The dosing frequency of DTG should be increased to 50 mg 12 hourly. If on TLD FDC, then		Unchanged	Unchanged	Unchanged	
Drug	Target dosing	Standard adult dose		eGFR < 30 mL/min	, i i i i i i i i i i i i i i i i i i i	add DTG 50 mg 12 hours after TLD. Continue bo after rifampicin discontinued.		U	Ŭ	U U	
Amikacin	15 – 20 mg/kg daily	46 – 55.9 kg: 750 – 1000 mg daily ≥ 56 kg: 1000 mg daily		Stop amikacin. If essential, use with therapeutic drug monitoring	Efavirenz	600 mg at night (or 400 mg if < 40 kg) The use of efavirenz with bedaquiline is contraindicated.		Unchanged	Unchanged	Unchanged	
Bedaquiline	If bedaquiline treatment interrupted for > 2 weeks, call the hotline	≥ 30 kg: 400 mg daily for 2 weeks then 200 mg three times a week (M/W/F) until completed OR BPaL-L regimen only: 200 mg		Unchanged (but dosing not established in severe renal impairment, use with caution)	Etravirine	200 mg 12 hourly		Unchanged	Unchanged	Unchanged	
					Lamivudine	300 mg daily OR 150 mg 12 hourly		Unchanged	150 mg daily	50 mg daily	
Clofazimine	for advice on restarting 2 – 5 mg/kg daily	daily for 8 weeks then 100 mg daily 100 mg daily		Unchanged	Lopinavir/ritonavir	400 mg/100 mg 12 hourly If also on rifampicin: Increase LPV/r to 800/200 mg twice daily slowly		Unchanged	Unchanged	Unchanged	
Delamanid		30 – 45.9 kg: 50 mg 12 hourly ≥ 46 kg: 100 mg 12 hourly		Unchanged (but dosing not established in severe renal impairment, use with caution)		over 2 weeks with ALT monitoring. Continue double dose for 2 weeks after stopping rifampicin.					
		30 – 45.9 kg: 800 mg daily		Standard dose given three times weekly	Rilpivirine	25 mg daily		Unchanged	Unchanged	Unchanged	
Ethambutol	15 – 25 mg/kg daily				Tenofovir alafenamide (TAF)	25 mg daily		Unchanged	Unchanged	Avoid *	
Ethionamide (can be given in 2 divided doses to improve toler-	15 – 20 mg/kg daily	30 – 45.9 kg: 500 mg daily 46 – 69.9 kg: 750 mg daily ≥ 70 kg: 1000 mg daily		Unchanged	Tenofovir disoproxil fumarate (TDF)	300 mg daily		Avoid	Avoid	Avoid *	
ance)					Zidovudine	300 mg 12 hourly		Unchanged	Unchanged	300 mg daily	
Isoniazid (high dose)	10 – 15 mg/kg daily	30 – 45.9 kg: 450 mg daily ≥ 46 kg: 600 mg daily		Unchanged	DRUGS	FOR PROPHYLAXIS OF OPPORTUNISTIC INFECTIONS				ONS	
Levofloxacin	15 – 20 mg/kg daily	30 – 45.9 kg: 750 mg c ≥ 46 kg: 1000 mg dail	-	Standard dose given three times weekly	Drug	Standard adult dose	eGFR 10-50 mL/min	eGFR < 10) mL/min		
	Linozolid 10 mg/kg daily		, laily	Linghangad	Co-trimoxazole	800/160 mg daily	400/80 mg daily	400/80 mg	three times pe	r week	
Linezolid	10 mg/kg daily	≥ 36 kg: 600 mg daily		Unchanged	Dapsone	100 mg daily	No recommendation	No recommendation			
Moxifloxacin		≥ 30 kg: 400 mg daily		Unchanged	Fluconazole	200 mg daily	100 mg daily	100 mg daily			
Para-aminosalicylic acid	200 – 300 mg/kg daily	30 – 69.9 kg: 4 g 12 hourly ≥ 70 kg: 4 – 6 g 12 hourly		4 g 12 hourly	ASSESSING RENAL FUNCTION						
Pretomanid		≥ 30 kg: 200 mg daily		Unchanged		atinine is a waste product filtered by the kidneys. If serum creatinine (SCr) rises it is a sign that the kidneys are not rking properly. As serum creatinine rises, the eGFR falls.					
Pyrazinamide (dose depends on which tablet strength is available)	20 – 30 mg/kg daily	30 – 35.9 kg: 1200 – 1250 mg daily 36 – 69.9 kg: 1500 – 1600 mg daily ≥ 70 kg: 2000 mg daily		25 – 35 mg/kg three times weekly	 The GFR can be estimated using various formulae, e.g. Modified Cockroft-Gault, MDRD, CKD-EPI. The important point to remember is to consistently use the same formula for the same patient. For pregnant women with SCr > 85, discuss with an expert. Remember to re-assess kidney function periodically to avoid under-dosing if kidney function normalises. 						
Rifabutin		300 – 450 mg daily Reduce dose to 150 mg daily if used in com- bination with a protease inhibitor.		Unchanged (but consider a dose reduction of 50% if toxicity is suspected)	• Remember to re-as	health health discussion was supported under funding provided by the Global to Fight AIDS, Tuberculosis and Malaria through the National Departm Health of South Africa and the NDoH Pharmacovigilance Centre for I				ational Department of nce Centre for Public	
Terizidone	10 – 15 mg/kg daily	30 – 45.9 kg: 500 mg c ≥ 46 kg: 750 mg daily		250 mg daily or 500 mg three times weekly	Health REPUBLIC OF SOUTH AFRIC	ent of rifampicin-resistant TB guidelines, Sept 2023. Additional references available on request.		Health Programmes. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Global Fund or the National Department of Health of South Africa ALT = alanine aminotransferase; FDC = fixed dose combination; RHZE = fixed dose			

NEED HELP?

Contact the TOLL-FREE National HIV & TB Health Care Worker Hotline 0800 212 506 /021 406 6782 Alternatively "WhatsApp" or send an SMS or "Please Call Me" to 071 840 1572

<u>www.mic.uct.ac.za</u>





combination of rifampicin (R), isoniazid (H), pyrazinamide (Z) and ethambutol (E); RH = fixed dose combination of rifampicin and isoniazid; TLD = tenofovir + lamivudine + dolutegravir * May be used if patient is on haemodialysis