# Annexure 6 *Antiretroviral Drug Dosing Chart for Children (2022)*

Compiled by Child and Adolescent Committee of SA HIV Clinicians Society in collaboration with the Department of Health

| | **Abacavir + Lamivudine (ABC + 3TC)** | **Dolutegravir (DTG)** | **Dolutegravir when on Rifampicin** | **Abacavir (ABC)** | **Lamivudine (3TC)** | **Zidovudine (AZT)** |
|---|---|---|---|---|---|---|
| **Target dose** | As for individual medicines **ONCE daily** | By weight band **ONCE daily** | By weight band **TWICE DAILY** | 8 mg/kg/dose **TWICE daily** OR **If ≥ 10 kg:** 16 mg/kg/dose **ONCE daily** | 4 mg/kg/dose **TWICE daily** OR **If ≥ 10 kg:** 8 mg/kg/dose **ONCE daily** | 180 - 240 mg/m$^2$/dose **TWICE daily** |
| **Available formulations** | Dispersible tablet FDC: ABC/3TC 120/60 mg Tablets FDC: ABC/3TC 600/300 mg ABC/3TC/DTG 600/300/50 mg | Dispersible tabs (DT) 10 mg, Film coated (FC) tabs 50 mg, FDC: TLD 300/300/50 mg OR ABC/3TC/DTG 600/300/50 mg **DT AND FC TABLETS ARE NOT BIOEQUIVALENT** | Dispersible tabs (DT) 10 mg, Film coated (FC) tabs 50 mg, FDC: TLD 300/300/50 mg OR ABC/3TC/DTG 600/300/50 mg **DT AND FC TABLETS ARE NOT BIOEQUIVALENT** | Sol. 20 mg/ml Tabs 60 mg (scored, dispersible), 300 mg (not scored) | Sol. 10 mg/ml Tabs 150 mg (scored) | Sol. 10 mg/ml Tabs 100 mg, 300 mg (not scored), FDC: AZT/3TC 300/150 mg |
| **Wt. (kg)** | Consult with a clinician experienced in paediatric ARV prescribing for neonates (< 28 days of age) and infants weighing < 3kg | | | | | |
| **3 - 5.9** | 1 x 120/60 mg tab od | 0.5 x 10 mg DT od | 0.5 x 10 mg DT bd | 3 ml bd **OR** 1 x 60 mg tab bd | 3 ml bd | 6 ml bd |
| **6 - 9.9** | 1.5 x 120/60 mg tabs od | 1.5 x 10 mg DT od | 1.5 x 10 mg DT bd | 4 ml bd **OR** 1.5 x 60 mg tab bd | 4 ml bd | 9 ml bd |
| **10 - 13.9** | 2 x 120/60 mg tabs od | 2 x 10 mg DT od | 2 x 10 mg DT bd | **Once daily dosing > 10 kg** | **Once daily dosing > 10 kg** | 12 ml bd **OR** 1 x 100 mg tabs bd |
| | | | | 4 x 60 mg tabs od **OR** 12 ml od | 12 ml od | |
| **14 - 19.9** | 2.5 x 120/60 mg tabs od | 2.5 x 10 mg DT od | 2.5 x 10 mg DT bd | 5 x 60 mg tabs od **OR** 1 x 300 mg tab od | 1 x 150 mg tab od | 2 x 100 mg tabs am + 1 x 100 mg tab pm **OR** 15 ml bd |
| **20 - 24.9** | 3 x 120/60 mg tabs od | 3 x 10 mg DT od **OR** 1 x 50 mg FC tab od | 3 x 10 mg DT bd **OR** 1 x 50 mg FC tab bd | 1 x 300 mg tab + 1 x 60 mg tab od **OR** 6 x 60 mg tabs od | 2 x 150 mg tabs od | 2 x 100 mg tabs bd **OR** 20 ml bd |
| **25 - 29.9** | 1 x 600/300 mg tab od **OR** ABC/3TC/DTG FDC (600/300/50 mg) if eligible od | 1 x 50 mg FC tab od **OR** FDC: ABC/3TC/DTG if eligible od | 1 x 50 mg FC tab bd OR FDC: ABC/3TC/ DTG if eligible od + 50 mg DTG FC tab 12 hours later | 2 x 300 mg tabs od | | 1 x 300 mg tab bd **OR** 1 x AZT/3TC 300/150 mg tab bd |
| **30 - 39.9** | | 1 x 50 mg FC tab od **OR** FDC: TLD if eligible od **OR** FDC: ABC/3TC/DTG if eligible od | 1 x 50 mg FC tab bd **OR** FDC: TLD if eligible od + 50 mg DTG FC tab 12 hours later **OR** FDC: ABC/3TC/ DTG if eligible od + 50 mg DTG FC tab 12 hours later | | | |
| **≥ 40** | | | | | | |

* Avoid LPV/r solution in any full-term infant <14 days of age and any premature infant <42 weeks post conceptual age (corrected gestational age) or obtain expert advice.

✦ Children weighing 25-29.9 kg may also be dosed with LPV/r 200/50 mg adult tabs: 2 tabs am + 1 tab pm.

# Atazanavir + ritonavir should not be used in children/adolescents on treatment with Rifampicin, obtain expert advice. No dosage adjustments are required for children receiving treatment with Efavirenz and Rifampicin.

od = once a day;
nocte = at night;
bd = twice a day;
am = in the morning;
pm = in the evening;
std = standard;

| Lopinavir / ritonavir (LPV/r) | Abacavir + Lamivudine + Lopinavir/ ritonavir | Lopinavir/ritonavir when on rifampicin (and for 2 weeks after stopping rifampicin) | | # Atazanavir (ATV) + Ritonavir (RTV) | Efavirenz (EFV) | |
|---|---|---|---|---|---|---|
| 300/75 mg/m²/dose LPV/r **TWICE daily** | **By weight band TWICE daily** | LPV/r std dose + super-boosting with ritonavir (RTV) powder **TWICE daily** (≥ 0,75 x LPV dose bd) | Double-dose LPV/r tabs ONLY if able to swallow whole LPV/r tabs **TWICE daily** | By weight band **ONCE daily** | By weight band **ONCE daily** | **Target dose** |
| Sol. 80/20 mg/ml Adult tabs 200/50 mg, Paed tabs 100/25 mg **TABLETS MUST BE SWALLOWED WHOLE** Pellets 40/10 mg per capsule **ONLY FOR USE IF NOT TOLERATING LPV/r SOLUTION. CAPSULES ARE NOT RECOMMENDED < 6 MONTHS OF AGE** | Caps 30/15/40/10 mg **IF PATIENT IS ON RIFAMPICIN TB TREATMENT, ADD RTV POWDER** (next column) | Oral powder 100 mg/packet | Adult tabs 200/50 mg, **Paed tabs** 100/25 mg | ATV caps 150, 200 mg; RTV tabs 100 mg; FDC: ATV/RTV 300/100 mg RTV TABLETS AND ATV/r FDC TABLETS MUST BE SWALLOWED WHOLE | Caps/tabs 50, 200, 600 mg; FDC: TEE 300/200/600 mg; TABLETS MUST BE SWALLOWED WHOLE | **Available formulations** |
| Consult with a clinician experienced in paediatric ARV prescribing for neonates (< 28 days of age) and infants weighing < 3kg | | | | | | **Wt. (kg)** |
| * 1 ml bd **OR** 2 capsules bd | 2 capsules bd | LPV/r std dose (see purple column) + oral RTV powder 100 mg (1 packet) bd | Do not use double-dose LPV/r tabs | Not recommended | Not recommended | **3 - 5.9** |
| * 1.5 ml bd **OR** 3 capsules bd | 3 capsules bd | | | | | **6 - 9.9** |
| 2 ml bd OR 4 capsules bd **OR** 2 x 100/25 mg paed tabs am + 1 x 100/25 mg paed tab pm | 4 capsules bd | LPV/r std dose (see purple column) + oral RTV powder 200 mg (2 packets) bd | 3 x 100/25 mg **paed tabs** bd | ATV 1 x 200 mg cap od + RTV 1 x 100 mg tab or 100 mg oral powder (1 packet) od | 1 x 200 mg cap/tab nocte | **10 - 13.9** |
| 2.5 ml bd OR 5 capsules bd **OR** 2 x 100/25 mg paed tabs bd **OR** 1 x 200/50 mg adult tab bd | 5 capsules bd | | 4 x 100/25 mg **paed tabs** bd **OR** 2 x 200/50 mg **adult tabs** bd | | 1 x 200 mg cap/tab + 2 x 50 mg caps/ tabs nocte | **14 - 19.9** |
| 3 ml bd OR 6 capsules bd **OR** 2 x 100/25 mg paed tabs bd **OR** 1 x 200/50 mg adult tab bd | 6 capsules bd | | | | | **20 - 24.9** |
| 3.5 ml bd OR 7 capsules bd **OR** 3 x 100/25 mg paed tabs bd **OR** 1 x 200/50 mg adult tab bd + 1 x 100/25 mg paed tab bd | Not recommended | LPV/r std dose (see purple column) + oral RTV powder 300 mg (3 packets) bd | 6 x 100/25 mg **paed tabs** bd **OR** 3 x 200/50 mg **adult tabs** bd | 1 x ATV/RTV 300/100mg FDC od **OR** ATV 2 x 150 mg caps od + RTV 1 x 100 mg tab or 100 mg oral powder (1 packet) od | 2 x 200 mg caps/ tabs nocte | **25 - 29.9** |
| 5 ml bd OR 10 capsules bd **OR** 4x100/25 mg paed tabs bd **OR** 2x200/50 mg adult tabs b | | | 8 x 100/25 mg **paed tabs** bd **OR** 4 x 200/50 mg **adult tabs** bd | | | **30 - 39.9** |
| | | | | | 2 x 200 mg caps/ tabs nocte **OR** FDC: TEE if eligible od | **≥ 40** |

FC = film coated
DT = dispersible tablet
FDC = fixed dose combination;
TLD = tenofovir/lamivudine/dolutegravir;
TEE = tenofovir/emtricitabine/efavir

| Weight (kg) | 3 - 5.9 | 6 - 13.9 | 14 - 24.9 | ≥ 25 |
|---|---|---|---|---|
| **Cotrimoxazole Dose** | 2.5 ml od | 5 ml or ½ tab od | 10 ml or 1 tab od | 2 tabs od |
| **Multivitamin Dose** | 2.5 ml od | 2.5 ml od | 5 ml od | 10 ml od |