



PAEDIATRIC ANTIRETROVIRAL DRUGS DOSING CHART (OCTOBER 2014)

Weight Range (kg)	Fixed dose combination			Single formulations where FDCs are not available							Weight Range (kg)
	Abacavir (ABC) + Lamivudine (3TC)	Zidovudine (ZDV) + Lamivudine (3TC)	Zidovudine (ZDV) + Lamivudine (3TC) + Nevirapine (NVP)	Efavirenz (EFV)	Nevirapine (NVP)		Lopinavir/ ritonavir (LPV/r)		Additional dosing for Ritonavir for TB/ HIV co-infection		
	TwICE Daily	TwICE Daily	TwICE Daily	Once Daily	Once daily for first 2 weeks then twice daily		TwICE Daily		TwICE Daily		
	60mg ABC + 30mg 3TC tablets	60mg ZDV + 30mg 3TC tablets	60mg ZDV + 30mg 3TC + 50mg NVP tablets	200mg EFV tablets	10mg/ml NVP suspension	200mg NVP tablets	LPV/r 80/20mg per ml solution	LPV/r 200/50mg tablets	RTV liquid (80mg/ml as 90ml bottle)	100mg RTV capsules	
3 - 5.9	1 tab	1 tab	1 tab	See notes	5 ml	-	1.5 ml	-	1 ml	-	3 - 5.9
6 - 9.9	1.5 tab	1.5 tab	1.5 tab	See notes	8 ml	-	1.5 ml	-	1 ml	-	6 - 9.9
10 - 13.9	2 tab	2 tab	2 tab	1 tab	10 ml	0.5 tab	2 ml	-	1.5 ml	-	10 - 13.9
14 - 19.9	2.5 tab	2.5 tab	2.5 tab	1.5 tab	15 ml	1 tab in am 0.5 tab in pm	2.5 ml	1 tab twice daily	2 ml	2 cap	14 - 19.9
20 - 24.9	3 tab	3 tab	3 tab	1.5 tab	15 ml	1 tab in am 0.5 tab in pm	3 ml	1 tab twice daily	2.5 ml	2 cap	20 - 24.9
25 - 34.9	300 + 150mg	300 + 150mg	300/150/200mg	2 tab	-	1 tab	4 ml	2 tab in am 1 tab in pm	4 ml in am 2 ml in pm	2 cap in am 3 cap in pm	25 - 34.9

Footnotes:

Paediatric **fixed dose combinations (FDCs)** are available as **ABC/3TC, AZT/3TC and AZT/3TC/NVP**. All children requiring ART should be put on appropriate FDCs based on their weight.

ABC/3TC tablets - can be chewed or crushed or dispersed in water (5-15 ml) or onto a small amount of food and immediately ingested. Children above 25 kg should be treated as per the adult dose of ABC 300mg+ 3TC 150 mg twice daily.

AZT/3TC and AZT/3TC/NVP tablets are water dispersible and should be given in 5-15 ml of water.

For adolescents on ABC based regimen consider transitioning to **TDF/3TC/EFV** if their weight remains consistently > 35kgs (at least 2 readings one month apart) for better adherence. **Tenofovir/Lamivudine** and **Tenofovir/Lamivudine/Efavirenz** (FDCs) - can be used in children older than 10 years and above 35 kgs. Reference should be made to the national guidelines for dosing.

Single formulations: These formulations should only be used where appropriate paediatric or adult FDCs cannot be used.

Abacavir (ABC) – tablets may be swallowed whole or crushed.

Lamivudine (3TC) – tablets may be swallowed whole or crushed.

Efavirenz 200mg – tablet is double scored and may be divided into four or two equal parts. Tablet may be crushed and dispersed in water (5-15 ml) or onto a small amount of food and immediately ingested.

Footnotes:

Lopinavir/ritonavir – Oral solution should be taken with food. Oral solution must be refrigerated until dispensed. After removing from refrigeration oral solution is only stable for 60 days (2 months) at room temperature (up to 25° C). Where temperatures are expected to exceed 25°C, the feasibility of dispensing smaller amounts and giving more frequent refills should be considered (for instance, no more than monthly supplies dispensed at one time). The amount of solution has been rounded up to nearest ½ ml for easier measurement as per the manufacturer's recommendation.

Ritonavir Liquid - Children with TB/HIV co-infection who are on LPV/r based ART, will need additional dosing with Ritonavir to make LPV: RTV as 1:1 (due to reduced concentration of LPV/r when used with Rifampicin) and should be given as indicated. The dosing is rounded off to nearest ml for ease of administration of RTV.

Use of Efavirenz in younger children:
The U.S. FDA has approved use of EFV in children 3 months and above and weighing more than 3.5 kg. Currently in Kenya, use of EFV in children aged <3 years and weighing <10 kg is recommended ONLY in TB/ HIV co-infection management without prior exposure to NVP for PMTCT.

Weight (kg)	EFV dose (mg)	Quantities (Efavirenz is available as double scored tablet)
3.5 to 4.9	100	½ of the 200mg double scored tablet
5 to 7.4	150	¾ of 200mg double scored tablet
7.5 to 13.9	200	1 of the 200mg tablet
14 to 19.9	300	1 ½ of the 200mg double scored tablet
20 to 24.9	300	1 ½ tablet of the 200mg double scored tablet
25 to 34.9	400	2 of the 200mg tablets
35 and above	600	1 of the 600mg tablet