

PEDIATRIC ARV DOSING CHART



This pediatric ARV dosing chart is based on the following sources :

1) Summary of simplified dosing of ARVs for infants and children (WHO - July 2008) :

http://www.who.int/hiv/paediatric/Sum_WHO_ARV_Ped_ARV_dosing.pdf

2) Antiretroviral therapy for HIV infection in infants and children: towards universal access – Annex E (WHO – 2006)

<http://www.who.int/hiv/pub/guidelines/paediatric020907.pdf>

The dosages **in black ink** are WHO's latest recommendations (July 2008). They are considered as "optimal" & "ideal". They should be referred to **in priority**.

The dosages *in italic and red ink* are WHO's 2006 recommendations. They are considered as alternatives to the optimal-ideal dosages.

Drug	AZT (Zidovudine)						ABC (Abacavir)									
	Optimal-ideal WHO 2008				Alternative WHO 2006		Optimal-ideal WHO 2008				Alternative WHO 2006					
	60mg		10mg/ml		300mg		100mg		60mg		20mg/ml		300mg		300mg	
Strength of tab/cap (mg) or liquid mg/ml	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
3-3.9 kg	1	1	6 ml	6 ml					1	1	3 ml	3 ml				
4-4.9 kg	1	1	6 ml	6 ml					1	1	3 ml	3 ml				
5-5.9 kg	1	1	6 ml	6 ml					1	1	3 ml	3 ml				
6-6.9 kg	1.5*	1.5*	9 ml	9 ml					1.5*	1.5*	4 ml	4 ml				
7-7.9 kg	1.5*	1.5*	9 ml	9 ml					1.5*	1.5*	4 ml	4 ml				
8-8.9 kg	1.5*	1.5*	9 ml	9 ml			1	1	1.5*	1.5*	4 ml	4 ml				
9-9.9 kg	1.5*	1.5*	9 ml	9 ml			1	1	1.5*	1.5*	4 ml	4 ml				
10-10.9 kg	2	2	12 ml	12 ml			1	1	2	2	6 ml	6 ml				
11-11.9 kg	2	2	12 ml	12 ml			1	1	2	2	6 ml	6 ml			0.5	0.5
12-13.9 kg	2	2	12 ml	12 ml			1	1	2	2	6 ml	6 ml			0.5	0.5
14-16.9 kg	2.5**	2.5**			0.5	0.5			2.5**	2.5**			0.5	0.5		
17-19.9 kg	2.5**	2.5**			0.5	0.5			2.5**	2.5**			0.5	0.5		
20-24.9 kg	3	3			1	0.5			3	3			1	0.5		
25-29.9 kg					1	1							1	1		
30-34.9 kg					1	1							1	1		
>35 kg					1	1							1	1		
Level of recommendation Comment	<i>Alternative WHO 2006 : to be used in case AZT 10mg/ml & AZT 60mg not available</i>						<i>Alternative WHO 2006 : to be used in case ABC 20mg/ml & ABC 60mg not available</i>									

* 1.5 am & 1.5 pm may also be delivered as 2 am & 1 pm if tablet can not be scored

** 2.5 am & 2.5 pm may also be delivered as 3 am & 2 pm if tablet can not be scored

Drug	3TC (Lamivudine)						ddl (Didanosine)										
	Optimal-ideal WHO 2008				Alternative WHO 2006		Alternative WHO 2006										
Level of recommendation																	
Strength of tab/cap (mg) or liquid mg/ml	30mg		10mg/ml		150mg		150mg		10mg/ml		25mg***		125mg	200mg	250mg	400mg	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	once daily	once daily	once daily	once daily	
3-3.9 kg	1	1	3 ml	3 ml													
4-4.9 kg	1	1	3 ml	3 ml													
5-5.9 kg	1	1	3 ml	3 ml					4 ml	4 ml	2	2					
6-6.9 kg	1.5*	1.5*	4 ml	4 ml					5 ml	5 ml	2	2					
7-7.9 kg	1.5*	1.5*	4 ml	4 ml					6 ml	6 ml	2	2					
8-8.9 kg	1.5*	1.5*	4 ml	4 ml					6 ml	6 ml	2	2					
9-9.9 kg	1.5*	1.5*	4 ml	4 ml					6 ml	6 ml	2	2					
10-10.9 kg	2	2	6 ml	6 ml					6 ml	6 ml	3	2	1				
11-11.9 kg	2	2	6 ml	6 ml					7 ml	7 ml	3	3	1				
12-13.9 kg	2	2	6 ml	6 ml			0.5	0.5	7 ml	7 ml	3	3	1				
14-16.9 kg	2.5**	2.5**			0.5	0.5			8 ml	8 ml	4	3		1			
17-19.9 kg	2.5**	2.5**			0.5	0.5			9 ml	9 ml	4	4		1			
20-24.9 kg	3	3			1	0.5					5	5				1	
25-29.9 kg					1	1					5	5				1	
30-34.9 kg					1	1					5	5				1	
35-59.9 kg					1	1										1	
>60 kg					1	1											1
Level of recommendation	<i>Alternative WHO 2006 : to be used in case 3TC 10mg/ml & 3TC 30mg not available</i>						<i>Alternative WHO 2006 : no new recommendations on ddl in WHO 2008 simplified dosing recommendations</i>										
Comment																	

* 1.5 am & 1.5 pm may also be delivered as 2 am & 1 pm if tablet can not be scored

** 2.5 am & 2.5 pm may also be delivered as 3 am & 2 pm if tablet can not be scored

*** 25 mg chew tablets can be substituted with other strengths to the same mg amount but each am and pm dose must always be made up of at least two tablets.

Drug	d4T (Stavudine)											
	Optimal-ideal WHO 2008										Alternative WHO 2006	
	6mg		1mg/ml		15mg		20mg		30mg		20mg	
Level of recommendation Strength of tab/cap (mg) or liquid mg/ml	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
3-3.9 kg	1	1	6 ml	6 ml								
4-4.9 kg	1	1	6 ml	6 ml								
5-5.9 kg	1	1	6 ml	6 ml								
6-6.9 kg	1.5*	1.5*	9 ml	9 ml							0.5***	0.5***
7-7.9 kg	1.5*	1.5*	9 ml	9 ml							0.5***	0.5***
8-8.9 kg	1.5*	1.5*	9 ml	9 ml							0.5***	0.5***
9-9.9 kg	1.5*	1.5*	9 ml	9 ml							0.5***	0.5***
10-10.9 kg	2	2			1	1						
11-11.9 kg	2	2			1	1						
12-13.9 kg	2	2			1	1						
14-16.9 kg	2.5**	2.5**					1	1				
17-19.9 kg	2.5**	2.5**					1	1				
20-24.9 kg	3	3					1	1				
25-29.9 kg									1	1		
30-34.9 kg									1	1		
>35 kg									1	1		
Level of recommendation Comment	<i>Alternative WHO 2006 : to be used in case d4T 6mg & d4T 1mg/ml not available</i>											

* 1.5 am & 1.5 pm may also be delivered as 2 am & 1 pm if tablet can not be scored

** 2.5 am & 2.5 pm may also be delivered as 3 am & 2 pm if tablet can not be scored

*** d4T 20mg capsules can be dissolved in a measured quantity of water and half the quantity administered to provide dose shown in the table

Drug	NVP*** (Nevirapine)						EFV**** (Efavirenz)	
	Optimal-ideal WHO 2008						Alternative WHO 2006	
Level of recommendation							Alternative WHO 2006	
Strength of tab/cap (mg) or liquid mg/ml	50mg		10mg/ml		200mg		200mg	
	am	pm	am	pm	am	pm	am	pm
3-3.9 kg	1	1	5 ml	5 ml				
4-4.9 kg	1	1	5 ml	5 ml				
5-5.9 kg	1	1	5 ml	5 ml				
6-6.9 kg	1.5*	1.5*	8 ml	8 ml				
7-7.9 kg	1.5*	1.5*	8 ml	8 ml				
8-8.9 kg	1.5*	1.5*	8 ml	8 ml				
9-9.9 kg	1.5*	1.5*	8 ml	8 ml			0.5	0.5
10-10.9 kg	2	2	10 ml	10 ml			0.5	0.5
11-11.9 kg	2	2	10 ml	10 ml			0.5	0.5
12-13.9 kg	2	2	10 ml	10 ml			0.5	0.5
14-16.9 kg	2.5**	2.5**			1	0.5		
17-19.9 kg	2.5**	2.5**			1	0.5		
20-24.9 kg	3	3			1	0.5		
25-29.9 kg					1	1		
30-34.9 kg					1	1		
35-39.9 kg					1	1		
>40 kg					1	1		
Level of recommendation Comment	Alternative WHO 2006 : to be used in case NVP 10mg/ml & NVP 50mg not available						Alternative WHO 2006 : no new recommendations on EFV in WHO 2008 simplified dosing recommendations	

* 1.5 am & 1.5 pm may also be delivered as 2 am & 1 pm if tablet can not be scored

** 2.5 am & 2.5 pm may also be delivered as 3 am & 2 pm if tablet can not be scored

*** Remember that dosing of NVP must be adjusted during the induction phase of a NVP-based therapy (from Day 1 to Day 14)

**** EFV not recommended in children under 3 years

Drug	Lop/rit* (Lopinavir / Ritonavir)						NFV (Nelfinavir)	
	Optimal-ideal WHO 2008						Alternative WHO 2006	
Strength of tab/cap (mg) or liquid mg/ml	100mg/25mg		80mg/20mg/ ml		200mg/50mg		Alternative WHO 2006 250mg	
	am	pm	am	pm	am	pm	am	pm
3-3.9 kg			1 ml	1 ml				
4-4.9 kg			1.5 ml	1.5 ml				
5-5.9 kg			1.5 ml	1.5 ml			2	2
6-6.9 kg			1.5 ml	1.5 ml			2	2
7-7.9 kg			1.5 ml	1.5 ml			3	2
8-8.9 kg			1.5 ml	1.5 ml			3	3
9-9.9 kg			1.5 ml	1.5 ml			3	3
10-10.9 kg	2	1	2 ml	2 ml			3	3
11-11.9 kg	2	1	2 ml	2 ml			3	3
12-13.9 kg	2	1	2 ml	2 ml			1	1
14-16.9 kg	2	2	2.5 ml	2.5 ml			1	1
17-19.9 kg	2	2	2.5 ml	2.5 ml			1	1
20-24.9 kg	3	2	3 ml	3 ml			1	1
25-29.9 kg	3	3	3.5 ml	3.5 ml	2	1		
30-34.9 kg	3	3	4 ml	4 ml	2	1		
>35 kg	4	4	5 ml	5 ml	2	2		
Level of recommendation Comment	Alternative WHO 2006 : to be used in case Lop/rit 80mg/20mg/ml & Lop/rit 100mg/25mg not available						Alternative WHO 2006 : no new recommendations on NFV in WHO 2008 simplified dosing recommendations	

* Higher doses of Lop/rit may be required when co-administered with enzyme-inducing drugs such as NVP, EFV, fosamprenavir, rifampicin

Drug	AZT/3TC (Zidovudine / Lamivudine)						ABC/3TC (Abacavir / Lamivudine)				d4T/3TC*** (Stavudine / Lamivudine)					
	Optimal-ideal WHO 2008				<i>Alternative WHO 2006</i>		Optimal-ideal WHO 2008				Optimal-ideal WHO 2008				<i>Alternative WHO 2006</i>	
	60mg/30mg		300mg/ 150mg		<i>300mg/ 150mg</i>		60mg/30mg		300mg/ 150mg		6mg/30mg		30mg/150mg		<i>30mg/150mg</i>	
Level of recommendation Strength of tab/cap (mg) or liquid mg/ml	am	pm	am	pm	<i>am</i>	<i>pm</i>	am	pm	am	pm	am	pm	am	pm	<i>am</i>	<i>pm</i>
3-3.9 kg	1	1					1	1			1	1				
4-4.9 kg	1	1					1	1			1	1				
5-5.9 kg	1	1					1	1			1	1				
6-6.9 kg	1.5*	1.5*					1.5*	1.5*			1.5*	1.5*				
7-7.9 kg	1.5*	1.5*					1.5*	1.5*			1.5*	1.5*				
8-8.9 kg	1.5*	1.5*					1.5*	1.5*			1.5*	1.5*				
9-9.9 kg	1.5*	1.5*					1.5*	1.5*			1.5*	1.5*				
10-10.9 kg	2	2					2	2			2	2			0.5	0.5
11-11.9 kg	2	2					2	2			2	2			0.5	0.5
12-13.9 kg	2	2					2	2			2	2			0.5	0.5
14-16.9 kg	2.5**	2.5**			0.5	0.5	2.5**	2.5**			2.5**	2.5**			1	0.5
17-19.9 kg	2.5**	2.5**			0.5	0.5	2.5**	2.5**			2.5**	2.5**			1	0.5
20-24.9 kg	3	3			1	0.5	3	3			3	3			1	0.5
25-29.9 kg			1	1					1	1			1	1		
30-34.9 kg			1	1					1	1			1	1		
>35 kg			1	1					1	1			1	1		
Level of recommendation Comment	<i>Alternative WHO 2006 : to be used in case AZT/3TC 60mg/30mg not available</i>										<i>Alternative WHO 2006 : to be used in case d4T/3TC 6mg/30mg not available</i>					

* 1.5 am & 1.5 pm may also be delivered as 2 am & 1 pm if tablet can not be scored

** 2.5 am & 2.5 pm may also be delivered as 3 am & 2 pm if tablet can not be scored

*** d4T/3TC is also available in the following strengths : 5mg/20mg & 10mg/40mg. The WHO has not published any formal dosing recommendation

Important notice for those alternative fixed-dose combinations. If you need to use d4T/3TC 5mg/20mg or d4T/3TC 10mg/40mg, please refer to the drug's datasheets for dosage.

Drug	AZT/3TC/NVP*** (Zidovudine / Lamivudine / Nevirapine)				ABC/3TC/NVP (Abacavir / Lamivudine / Nevirapine)				ABC/AZT/3TC (Abacavir / Zidovudine / Lamivudine)					
	Optimal-ideal WHO 2008				Optimal-ideal WHO 2008				Optimal-ideal WHO 2008				<i>Alternative WHO 2006</i>	
Strength of tab/cap (mg) or liquid mg/ml	60mg/30mg/ 50mg		300mg/ 150mg/ 200mg		60mg/30mg/ 50mg		300mg/ 150mg/ 200mg		60mg/60mg/ 30mg		300mg/ 300mg/ 150mg		<i>300mg/ 300mg/ 150mg</i>	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	<i>am</i>	<i>pm</i>
3-3.9 kg	1	1			1	1			1	1				
4-4.9 kg	1	1			1	1			1	1				
5-5.9 kg	1	1			1	1			1	1				
6-6.9 kg	1.5*	1.5*			1.5*	1.5*			1.5*	1.5*				
7-7.9 kg	1.5*	1.5*			1.5*	1.5*			1.5*	1.5*				
8-8.9 kg	1.5*	1.5*			1.5*	1.5*			1.5*	1.5*				
9-9.9 kg	1.5*	1.5*			1.5*	1.5*			1.5*	1.5*				
10-10.9 kg	2	2			2	2			2	2				
11-11.9 kg	2	2			2	2			2	2				
12-13.9 kg	2	2			2	2			2	2				
14-16.9 kg	2.5**	2.5**			2.5**	2.5**			2.5**	2.5**			0.5	0.5
17-19.9 kg	2.5**	2.5**			2.5**	2.5**			2.5**	2.5**			0.5	0.5
20-24.9 kg	3	3			3	3			3	3			1	0.5
25-29.9 kg			1	1			1	1			1	1		
30-34.9 kg			1	1			1	1			1	1		
>35 kg			1	1			1	1			1	1		
Level of recommendation Comment									<i>Alternative WHO 2006 : to be used in case ABC/AZT/3TC 60mg/60mg/30mg not available</i>					

* 1.5 am & 1.5 pm may also be delivered as 2 am & 1 pm if tablet can not be scored

** 2.5 am & 2.5 pm may also be delivered as 3 am & 2 pm if tablet can not be scored

*** AZT/3TC/NVP is also available in the following strength : 60mg/30mg/60mg. The WHO has not published any formal dosing recommendation for that alternative fixed-dose combination. If you need to use AZT/3TC/NVP 60mg/30mg/60mg, please refer to the drug's datasheet for dosage.

Important notice

Drug	d4T/3TC/NVP*** (Stavudine / Lamivudine / Nevirapine)							
	Optimal-ideal WHO 2008						Alternative WHO 2006	
Level of recommendation								
Strength of tab/cap (mg) or liquid mg/ml	6mg/30mg/50mg		12mg/60mg/100mg		30mg/150mg/200mg		30mg/150mg/200mg	
	am	pm	am	am	am	pm	am	pm
3-3.9 kg	1	1	0.5	0.5				
4-4.9 kg	1	1	0.5	0.5				
5-5.9 kg	1	1	0.5	0.5				
6-6.9 kg	1.5*	1.5*	1	0.5				
7-7.9 kg	1.5*	1.5*	1	0.5				
8-8.9 kg	1.5*	1.5*	1	0.5				
9-9.9 kg	1.5*	1.5*	1	0.5				
10-10.9 kg	2	2	1	1			0.5	0.5
11-11.9 kg	2	2	1	1			0.5	0.5
12-13.9 kg	2	2	1	1			0.5	0.5
14-16.9 kg	2.5**	2.5**	1.5	1			1	0.5
17-19.9 kg	2.5**	2.5**	1.5	1			1	0.5
20-24.9 kg	3	3	1.5*	1.5*			1	0.5
25-29.9 kg					1	1		
30-34.9 kg					1	1		
>35 kg					1	1		
Level of recommendation Comment	Alternative WHO 2006 : to be used in case d4T/3TC/NVP 6mg/30mg/50mg not available							

* 1.5 am & 1.5 pm may also be delivered as 2 am & 1 pm if tablet can not be scored

** 2.5 am & 2.5 pm may also be delivered as 3 am & 2 pm if tablet can not be scored

*** d4T/3TC/NVP is also available in the following strengths : 5mg/20mg/35mg & 10mg/40mg/70mg. The WHO has not published any formal dosing recommendation for those alternative fixed-dose combinations. If you need to use d4T/3TC/NVP 5mg/20mg/35mg or d4T/3TC/NVP 10mg/40mg/70mg, please refer to the drug's datasheets for dosage.

Important notice