Elimination of New HIV Infections Among Children by 2015 And Keeping Their Mothers Alive



Ghana (draft)

Country Situation · · · · ·

Background Statistics		
HIV prevalence - adults (ages 15-49) _[1] *	1.8% [1.6-2.0%]	2009
HIV prevalence - pregnant women (all ages)_{[2]}^{\ast}	1.7%	2009
Number of women living wih HIV delivering ${}_{\!\scriptscriptstyle (\!3\!)}$	10,800	2011
Est. # children (ages 0-14) living with $\text{HIV}_{\scriptscriptstyle[1]}^{\star}$	27,000 [14,000-41,000]	2009
Maternal mortality ratio[4]	350/100,000	2010
Est. annual births _[5]	770,000	2010
Infant mortality rate _[6]	50/1,000	2010
Under-5 mortality rate[7]	74/1,000	2010

Adult HIV prevalence (ages 15-49) in Ghana, estimated at 1.8% in 2009, has declined over the past decade_[1]. There are considerable regional variations, with the highest rates in the Eastern (4.2%) and Ashanti (3.9%) regions_[8]. Among young people (ages 15-24), HIV prevalence was nearly three times higher among females (1.3%) than males (0.5%) in 2009_[1].

Between 2009 and 2011, Ghana saw a 31% decline in the number of new paediatric HIV infections—from 3,900 to $2,700_{[3]}$. HIV prevalence among pregnant women was 1.7% in 2009.

Although PMTCT services have been initiated in all regions, very few ANC facilities (5.6%) offered PMTCT services in $2010_{[9]}$. HIV testing among pregnant women increased from 4% in 2005 to 68% in $2010_{[10]}$, and the majority (75%) received ARVs for PMTCT in $2011_{[3]}$.

Ghana has adopted WHO 2010 PMTCT Guidelines Option A regimen for prophylaxis and a costed national PMTCT scale-up plan (2011-2015) is in place_[11].

Reaching High Level Targets ·

Global 2015 Targets

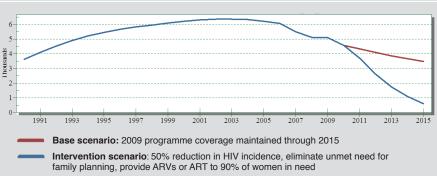
- Reduce the number of new HIV infections among children by 90%
- Reduce the number of HIV-associated deaths to women during pregnancy, delivery or puerperium by 50%

Child Targets

- Reduce under-five deaths due to HIV by at least 50%
- Provide antiretroviral therapy for all children with HIV

An estimated 3,500 children were newly infected with HIV in 2009. Modeling data from UNAIDS indicates that if all interventions are scaled up and Global Plan targets are achieved (see Figure 1), there would be 600 new child infections in 2015—an 88% decline in the number of new child infections between 2009 and 2015_[12].

Figure 1: Number of new child HIV infections due to mother to child transmission, by scenario, Ghana



Source: [12] Joint United Nations Programme on HIV/AIDS, Unpublished estimates on PMTCT country targets, 2010

Global Plan Targets, Baseline and Current Status

	Indicators	2009 Baseline [or last available data]	2010	2011	2012	2013	2014	2015
Overall Targets	Number new paediatric HIV infections[3]	3,900	-	2,700	—	—	_	—
	Number HIV-associated maternal deaths[4]	520 (2005)	400	-	—	—	—	-
Child Targets	Percentage of under-5 deaths due to HIV	4%[13] (2008)	3%[7]	-	_	_	_	_
Ch Tarç	ART coverage among children (ages 0-14)[3]	11%	-	14%	_	_	_	_
Prong One	HIV incidence in women (ages 15-49) $_{\scriptscriptstyle [3]}$	0.11%	-	0.09%	-	—	-	_
Prong Two	Percentage of married women with unmet need for family planning (ages 15-49)[14]	36% (2008)	-	_	_	_	_	_
	Mother-to-child transmission rate _[3]	33%	-	25%	_	—	-	-
Prong Three	Maternal ARV coverage (prophylaxis and ART coverage, excluding single-dose nevirapine) _[3]	31% ^a	-	75%	-	-	-	_
	Breastfeeding ARV Coverage _[3]	0%	-	0%	-	-	-	-
Prong Four	ART coverage among HIV+ pregnant women in need of treatment _[3]	0%	_	0%	_	_	_	_

Program Status According to PMTCT Prongs

Unite For Children Unite Against AIDS

Prim Prev

Primary prevention of HIV among women of childbearing age Preventing unintended pregnancies among women living with HIV

Global 2015 Targets

- Reduce HIV incidence in women (ages 15-49) by 50%
- · Reduce unmet need for family planning among women to zero

Background Statistics			
Young people (ages 15-24) HIV prevalence ^{[1]*}	Female: 1.3% [0.9-1.8%]	2009	
	Male: 0.5% [0.4-0.7%]	2009	
Condom use at last sex among young people (ages 15-24)	Female: – –		
with 2+ sexual partners in the last 12 months $_{14]}$	Male: 42%	2008	
Male partners of pregnant women attending ANC tested in last 12 months_{[14]}*	Male: –	-	
Unintended pregnancies (ages 15-49)[14]	Female: 37%	2008	

Key Points

Ghana has seen a very slight decline in HIV incidence in women (ages 15-49) between 2009 and 2011—from 0.11% to $0.09\%_{[3]}$. Prevalence of contraceptive use is low in Ghana, with only about a quarter (24%) of married women (ages 15-49) using any method in 2008_[14]. Approximately one in three women (36%) had unmet need for family planning in 2008_[14] and the rate of unintended pregnancies was high (37%).

Preventing HIV transmission from a woman living with HIV to her infant

Global 2015 Targets

Background Statistics

- Reduce overall mother-to-child transmission of HIV to <5%
- •90% of mothers receive perinatal ART or ARVs
- •90% of breastfeeding infant-mother pairs receive ART or ARVs

Background Statistics			
Timing of 1 st ANC visit (months)[14]	No ANC: 4% <4 months:	2008	
Percentage of women attending at least 4 ANC visits during pregnancy _[14]	Total: 78% Urban: 88% Rural: 72%	2008	
Percentage of pregnant women tested for HIV & received results in ANC, L&D, & post-partum (<72hrs) _[10] *	68%	2010	
Estimated % of infants born to HIV+ women receiving ARVs for $PMTCT_{[10]}^{*}$	19% [16-23%]	2010	
Skilled attendant at delivery (%) $_{[14]}$	57%	2008	
Exclusive breastfeeding for infants <6 months _[14]	63%	2008	

Figure 2: Coverage of selected PMTCT interventions (2010) 100% 90% 80% 70% 60% 50% >95% 40% 75% 68% 30% 20% 10% 19% 0% % of PW who % of % of PWLHIV % of children PW tested have at least one who received born to ANC visit[15] ** for HIV_[10]* more efficacious PWLHIV who ARVs for received ARVs for PMTCT_[3] PMTCT[10]*

[†] Indicator calculated from ANC health facility data for numerators and estimates of need for denominators. Not comparable to survey data presented under Background Statistics or elsewhere in this fact sheet.

Key Points

Facility data indicate most pregnant women (>95%) attended at least one ANC visit in 2010, yet survey data suggest significantly fewer attended at least four visits, as recommended by WHO. A 2008 survey indicated that, while 90% of women attended at least one visit_[14], only 78% attended at least four, with higher coverage in urban than in rural areas (88% vs. 72%). Despite good ANC coverage, only 68% of pregnant women were tested for HIV in 2010. Although 75% of pregnant women with HIV received the most effective ARV regimens for PMTCT in 2011, only 19% of infants received ARVs in 2010, which suggests many mother-baby pairs are lost along the continuum of care.



Program Status According to PMTCT Prongs

Providing appropriate treatment, care and support to women living with HIV and their children and families

Global 2015 Target

 90% of HIV-positive pregnant women in need of ART for their own health are started on lifelong ART

Background Statistics

Percentage of HIV-infected pregnant women assessed with CD4 $\text{testing}_{\scriptscriptstyle[9]}^{\star}$	53%	2010
Percentage of infants born to HIV- infected women started on CTX prophylaxis within 2 months of birth _[10] *	19% [16-23%]	2010
Percentage of infants born to HIV- infected women tested for HIV within 2 months of birth _[10] *	1% [1-1%]	2010

Key Points

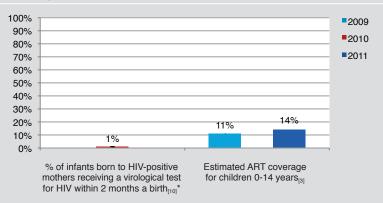
Only 53% of pregnant women with HIV were assessed with CD4 testing in 2010 to determine if they were in need of treatment for their own health, which is likely due to the uneven distribution of CD4 testing machines in the country^[11]. Early Infant Diagnosis Guidelines and a Protocol are in place in Ghana; however, only 1% of HIV-exposed infants were tested for HIV within two months of birth in 2010, as very few facilities are equipped to provide early infant diagnostic (EID) services^[11]. Approximately 1 in 5 infants (19%) received co-trimoxazole prophylaxis—an antibiotic that significantly reduces morbidity and mortality among infants and children who are living with or exposed to HIV. Paediatric ART coverage increased from 11% in 2009 to 14% in 2011, but remains low.

Key Challenges & The Bottom Line •••

Figure 3: Percentage distribution of various regimens provided to HIV+ pregnant women to prevent mother-to-child transmission of HIV, 2010*

100% - 90% -		ART for HIV+ pregnant women eligible for
80% -	Data not available	treatment
70%	Data not available	
60%		More effective ARV
50%		regimens
40% -		Single-dose nevirapine
30% -		Single dose new aprile
20%		
10% -		
0% -		

Figure 4: Percentage of infants born to HIV+ women tested for HIV at 2 months of birth (EID) & Percentage of children living with HIV receiving ART, 2009-2011



Key Challenges	The Bottom Line If national EMTCT targets for Ghana are to be met by 2015, the following actions should be considered:
Limited access to ANC and PMTCT services	 Regional HIV epidemics must inform regional scale up Expand availability of PMTCT services with ANC
High unmet need for family planning	Expand access to family planning and strengthen linkages between PMTCT and FP/SRH services
Despite good ANC coverage, far fewer women access skilled at- tendance at delivery.	Improve equitable access to skilled birth attendance
Few HIV+ pregnant women with HIV receive CD4 testing to deter- mine if they are in need of treatment for their own health	Expand CD4 testing and enroll those eligible for treatment on ART
Very few infants born to HIV+ mothers receive ARVs for PMTCT, CTX prophylaxis, or are tested for HIV within two months of birth. Few HIV+ children receive ART.	Expand the provision of CTX prophylaxis, EID, ARVs for PMTCT, and ART for children with HIV.
Data on some key PMTCT indicators are not available at national level, hindering tracking of progress towards the EMTCT targets	Strengthen routine monitoring system to ensure timely collection and reporting of quality data on Global Plan indicators.

Ghana

References:

- 1 Joint United Nations Programme on HIV/AIDS, *Report on the Global AIDS Epidemic*, 2010
- 2 Joint United Nations Programme on HIV/AIDS, unpublished estimates, 2010
- 3 Joint United Nations Programme on HIV/AIDS, *Together We Will End AIDS*, 2012
- 4 World Health Organization, United Nations Children's Fund, United Nations Population Fund and the World Bank, *Trends in Maternal Mortality: 1990-2010,* Estimates developed by WHO, UNICEF, UNFPA and the World Bank, 2012
- 5 United Nations Children's Fund, *State of the World's Children 2012: Children in an Urban World, 2012*
- 6 United Nations Children's Fund, World Health Organization, the World Bank, United Nations DESA/Population Division, *Levels & Trends in Child Mortality, Report 2011,* Estimates Developed by the UN Inter-agency Group for Child Mortality Estimation, 2011
- 7 Liu L, Johnson HL, Cousens S, et al, for the Child Health Epidemiology Reference Group of WHO and UNICEF. *Global, regional, and national causes of child mortality: an updated systematic analysis for 2010 with time trends since 2000.* Lancet 2012
- 8 Ghana AIDS Commission, Ghana's Progress Report on the United Nations General Assembly Special Session (UNGASS) Declaration of Commitment on HIV and AIDS: Report Period January 2008-December 2009, 2010
- 9 World Health Organization, Joint United Nations Programme on HIV/ AIDS, United Nations Children's Fund, *Towards Universal Access: Scaling up Priority HIV/AIDS Interventions in the Health Sector. unpublished estimates, 2011*
- 10 World Health Organization, Joint United Nations Programme on HIV/ AIDS, United Nations Children's Fund, *Towards Universal Access: Scaling up Priority HIV/AIDS Interventions in the Health Sector. Progress report, 2011*
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- 12 Joint United Nations Programme on HIV/AIDS, Unpublished estimates on PMTCT country targets, 2010
- 13 UN Inter-agency Group for Child Mortality Estimation, United Nations Children's Fund, World Health Organization, The World Bank, United Nations DESA/Population Division, *Levels & Trends in Child Mortality, Report 2010,* Estimates Developed by the UN Inter-agency Group for Child Mortality Estimation, UNICEF, WHO, The World Bank, United Nations DESA/Population Division, 2010
- 14 Ghana Demographic and Health Survey 2008, Final Report
- 15 WHO/UNICEF/UNAIDS, calculated from Universal Access country reported unpublished data, 2011

Notes:

- * Please note that the corresponding country data for this indicator have not been revised and, therefore, refer to what was published in the *Global HIV/AIDS Response – Epidemic Update and Health Sector Progress Towards Universal Access, Progress Report* 2011. Revised country data for this indicator will be published towards the end of 2012.
- Data not available.
- Indicator calculated from ANC health facility data for numerators and estimates of need for denominators. Not comparable to survey data presented under *Background Statistics* or elsewhere in this fact sheet.
- ^a 2009 data are not directly comparable to later years. Definition changed in 2010 to exclude single-dose nevirapine.

Acronyms:

ANC: Antenatal care ART: Antiretroviral therapy ARVs: Antiretroviral prophylaxis CTX: Co-trimoxazole prophylaxis EID: Early infant diagnosis EMTCT: Elimination of mother-to-child transmission of HIV FP: Family planning L&D: Labour and delivery MMR: Maternal mortality ratio MNCH: Maternal, newborn and child health PMTCT: Prevention of mother-to-child transmission of HIV PWLHIV: Pregnant women living with HIV SRH: Sexual and reproductive health WHO: World Health Organization

