

SUPPLEMENTARY MATERIAL FOR ISSUE BRIEF:

Achieving undetectable: what questions remain in scaling-up HIV virologic treatment monitoring?

Supplementary material includes national recommendations on infant diagnosis, CD4 and viral load testing, across 55 low- and middle-income countries, sourced from the UNAIDS database.

DECEMBER 2014

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National recommendations: Guidelines on the use of infant diagnosis, (CDF and routine viral load testing across \$5 low- and middle-income countries and the estent of implementation, where knows

National recommendations: Change in national guidelines on the use of infant diagnostic, CD4 and routine viral load testing across 15 low- and middle-income countries between 2007 and 2014

Data on guidelines was available from the UNAIDS database. Analysis was performed until mid-October 2014.

Highlighted cells indicate changes between guideline versions.

	COUNTRY BO		swana B		ızil	Cameroon		India		Kenya		Les	otho	Malawi		Mya	Myanmar		Namibia		Nigeria		South Africa		Uganda		United Re	nited Republic of Zam		bia 🛛	Zimba	Zimbabwe	
	GUDELINES	ART 2012	ART 2008	Adult ART 2013	ART 2010 and Pandiatric ART 2009	ART 2012	ART 2009	ART 2013, ART 2013 update and PMTCT 2013	Adult ART 2007 and ART 2011 update	ART 2014	ART 2011	ART 2014	ART 2010	ART 2014	ART 2011	ART 2011	ART 2007	ART 2014	ART 2010	ART 2010	ART 2007	ART 2013 and PMTCT 2013	ART 2010 and PWTCT 2010	ART 2013 update	ART 2012	ART 2009	ART 2012 and PMTCT 2013	ART 2009	ART 2013	ART 2010	ART 2013	ART 2010	
bifast diagnosis (saling a visiogical tea at the analysis of age) «12 months of age)	Was	4-6 weeks; 6 weeks post 16 months (Studie sectogical text) f inflant in n2 breastfeeding	4-0 weeks; 6 weeks after weaking (best dependent on age); 18 months (sensingst)	NA	After 1 month; 2 months (F negative or discontant results 12 months (sentilogic), F2 negative HIV DNA FOR	6 weeks after frut test (f discordant result; 15 months (serologic) 4-d weeks after wearing; 16 months (serologic)	ыл	6 weeks or suspacted HV, 6 months, 12 months, 18 months () sensibgical tests()	ыя	6 weeks (sensingic), 9 months or 8 symptomatic (sensingic), 18 months or 6 weeks after wearing (sensingic)	6 weeks (serciogic), 9 months or 8 symptomatic (serciogic), 18 months or 6 weeks after wearing (serciogic)	6 seeks J4V CMA PCR service/call test if HV status of mother is utknown). HV DNA PCR at 14 weeks if breastfleecing or weaned <\$ weeks, appl test 6 seeks post weaking, 16 howeatleecing(or moths (seeks), post weaking), 16 howeatleecing(or howeatleecing), 16 howeatleecing(or howeatleecing), 16 howeatleecing(or howeatleecing), 16 howeatleecing(or howeatleecing), 16 howeatleecing(or howeatleecing), 16 howeatleecing(or howeatleecing), 16 howeatleecing(or howeatleecing), 16 howeatleecing(or howeatleecing), 16 howeatleecing howeatleecing(or howeatleecing), 16 howeatleecing howe	6 weeks (NV DNA PCR, aerological teal IFHPV status of mother is unknown), 6 months (serskopic), 6 weeks patt wearing	ś weeks, symptomatic (serologic)	6 weeks, symptonatic (servicipic)	d-Sweeks, 9 macths (serelogic) or symptomatic, sweeks after weating	6 uneks	6 weeks, 9 monte (serologic) 3 monte poil wearing (serologic)	<u>6 weeks,</u> 9 months persiogra) 3 months part wearing (serologic)	«Innonthe at fest encounter, 6 weeks after weeks after symptomatic (serologic), 18 monthe (serologic)	NA	é weeks or synotomatic, é weeks post weeks post weeks post weeks post weeks post weeks post weeks or weeks or weeks or weeks or weeks or weeks or weeks or weeks or weeks post weeks post w	6 weeks or symptomatic, 6 weeks post weaks post weaks of a weeks post weaks of a weeks of a weaks of a weeks of a weeks post weaks post weaks post weaks post weaks post weaks post weaks post weaks post a weaks post weaks we	ма	6 works (HV DNA PCR, servingiai test if nortwinser), 6 works after wearing, 18 months (servingia)	6-6 weeks, 8-18 months (seeralogic), 3 months after 9-18 months 9-19 months (serologic)	4-6 weeks, symotomatic (HV DNA PCR, serologic 2 mother's HV status is unknown), 6 weeks post waaring (serologic) 16 months (serologic)	4-6 weeks, symptomatic, 6 weeks post wearing (secologic) 18 months (secologic)	6-8 weeks (servicejical test in case of ukknown HVV expensario symphomatic (servicejic), 6 macettes for broastiesding infant, 12 months for broastiesding infant, 12 months for broastiesding infant (servicejic), 16 months and/or 6 weeks after wanning (servicejic)	6 anala	6 weeks, 9 monte (aerologic), 6 weeks pool wearing (aerologic), 18 monte (aerologic), wherever child in symptomatic	6 weeks, 9 months (sentidgic), 6 weeks post weaking (sentidgic),	
	Type of test	HV DNA PCR	HV DNA POR	NA	FINA.	HIV DNA PCR	NA.	HIV DNA PCR	NA.	HIV servicgical test	HIV servicyical test	HIV DNA.PCR	HV DNA POR	HIV DNA PCR # child is <12 months; serological test at 12 18 months old or # mother's status unknown	HIV DNA PCR if child is <12 months; serulogical test at 12 18 months old	Viological test	HV DNA PCR	HIV DNA POR	HIV DNA PCR for <8 months: serologic or ELISA for 9-17 months	HIV DNA PCR If child is «Ik manths, serological test for children Ik-tik months ald	NA	HIV DNA PCR	HIV DNA PCR	NA	HV DNA POR	HV DNAPCR	HIV DNA PCR I <9 months sid; sensiogic I 9-18 months old	HV DNA PCR	HIV DNA PCR or sertilogical test	HIV DNA PCR	HEV DNA POR II <9 months old, serologic II 918 months old	HIV DNA PCR	
	Confirmation (type of text)	HV DNA PCR	HV DNA FOR	NA	FINA (If positive on first Helv (RNA text)	HIV DNA PCR	NA	HIV DNA PCR using whole blood specimen after positive sity DNA PCR	NA	HV DNA POR (F result from servicipical testing is positive)	HV DNA FOR (F next from nervice cale testing is positive)	HIV DNA.PCR	HEV DNA PCR, serologic (pt 18 months and when child is symptomatic despite earlier negative serological two)	HPV DNA PCR # sensiogical test mean is positive (for <12 months citit) regative (for >12 months citit) confirmatory sensingical test at 12 and 24 months	HeV DEA PCR # santiogical test result is positive (for <12 months old) or negative (for >12 months old); confirmatory sendogical test at 12 and 24 months	Viological test	NA	HIV DNA.PCR; confirmationy HIV DNA.PCR // Encrepancy between find two test results	HIV DNA PCR; confirmatory HIV DNA PCR if Encrepancy between find two test results	HIV DNA POR	NA	HM RNA PCR: serological test at 18 months for confirmation	HIV RNAPCR	NA	HIV DNA PCR If feet ball is servicatic, second confernatory HIV DNA PCR on day of ART initiation	Servingical test at 18 months	HV ENA POR (F result from servicipcal testing is positive)	HEV DNA PCR, second confirmatory HEV DNA PCR # discontant results on find two tests	HIV DNA PCR if positive result on servicepical test	Unknaan	HIV DNA PCR (f musil from nerological being is positive)	HV DNA.PCR (F result from servicipical testing all of months is positive), Servicipic test at 18 months	
	ART Initiation criteria (cella MA)	360	250	imaspective of CD4	350	200	200	260	260	600	250	500	350	600	360	360	200	600	360	360	200 (consider for < 350)	260	200	600	350	260	350	200	600	360	600	390	
CD4 testing for treatment initiation and monitoring	Initiation Intespective of CD4 Count	TR, WHO stage II or PC seven WHO stage II condition, CD4% <19%	TB, WHO stage II or	For all people living with HVr (set and break)	19, Ost candidite, idepathic thranibocytopenic purpura, cognitive changes (even minor), pregnant water	WHO stage N, WHO stage II or III if staal lymphocyte count 4100	WHO stage III or fr	TB, WHO stage III or Fr; hepatits B and C	19, WHO stage II or N	WHAD stage III or No tequate Control Program women, senditocontant opples, H7A associated nephropathy	TR, WHO stage III or Nr, hepatitis B, HIV- associated rephropethy	no III egette C44W, 407 N, happatite B, N, happatite B, N, happatite A, N, happatite N, happatit	TB, WHO stage II or IV, hepatits R	TB, WHO stage III or IV, pregnant women	TB, WHO stage III or N, pregnant women	MDR TB, WHO stage II or N, hepatits B	WHO stage IV	TB, WHO stage III or Nr, hepatitis B, aerodacostant couples, HVV positive concertant couples carsetty intending to conceive a child	TR, WHO stage III or IV, hepatitis B	TR, WHO stage II or Pr, hepatits B, sarodiscontant couples (>350), HP- associated nephropathy	WHO stage fV	TR, WHO stage II or	WHO stage IV	TR, WHO stage III or Fr, hepatits R, pregnant women, sanodiscontant cosples, sex wodars, fotownen, Tuckers, children <15 years	TB, WHO stage II or IV, hepatits B	WHO stage fV	TB, WHO stage III or N, pregnant women	WHO stage fV	Till, children <15 pears, WHO stage III or PX; pregnant women, HV goaltwe partners of pregnant and breastleeding women, serodiscondant couples, hepatits II	TB, WHO stage III or N, serodiscontant couples, hepatitis B	TB, WHO stage III or IV, sensitiscoréant couples, hepatitis B, pregnant women	TB, WHO stage II o	
	Treatment monitoring	3 monthe, 6 monthe, and every 6 monthe thereafter	3 months, 6 months and every 6 months thereafter	Every 6 months	NA	Every & months	Every 6 months for 2 years and then once a year	Every 6 months	Every & months	Not recommended; CO4 monitoring every & monitoring is not available	Evwy 6 months	Every 6 months	Every & months	Net recommended	Every 6 months	Every 6 months	Every & months	Use is case of virological failure to assess immunelogical status and inform clinical management	Month 12, every 6 months thereafter	Marth 3, every 6 months	Month 3, avery 6 months	At 12 months only	6 months, 1 year, and then every 12 months	CD4 nat recommended for routine maniforing of ART response	NA	Every 6 months	Every 6 months	Every & months	Every 6 months	é roantha, every year	Every 6 months	Every 6 months	
	ART Initiation criteria (copies/mL)	NA	NA	CD4 >500 and VL >100,000	500 and VL > 100,000	NA	NA.	NA	NA	NA.	NA.	NA.	NA	NA.	NA	NA.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA.	NA	NA	NA	NA	NA	
Viral load (HV RSA) testing for tradeset monitoring	Treatment monitoring	2 monthe, 6 months, every 6 months thereafter	2 months, 6 months, every 6 months thereafter	2-3 moeths, then every 6 moeths	NA	Unknown	Month 6, at least once a year	VL monitoring (for suspected clinical or immunological failure)	VI, may be considered for diagnosis of early treatment failure or to assess discordant clinical and CD4 findings in patients in whom failure of ART is suspected	Month 6, month 12 and then every 12 months	VL is recommanded for suspected treatment failure and before substituting d4T in cases of balloty where d4T has been used for more than 6 months	Month 6, month 12 and then every 12 months	Every 6 months, ideally, but it is not recommended for routine monitoring is resource-finiting setting	6 months, 2 years, and every 2 years thereafter	6 months, 2 years, and every 2 years thereafter	Every 6 months; if availability is limited, use to confirm treatment failure; CD4 is used when VL is not available	As needed; it may be considered to diagnose treatment failure earlier or to assess discondent clinical and CD4 findings in patients suspected of failing ART	Month 6, month 12 and then every 52 months (for adults)	Visi load at 6 moeths. Repeat VL as clinically indicated	Every é mantha	Not recommended	6 months, 1 year, and then every 12 months	6 months, 1 year, and then every 12 months	6 months, every 12 months thereafter	NA	Every 12 months or when suspect failure (optional beat)	It is not essential but may be considered for notifies monitoring of patients on ART	VL maybe considered to clagnose treatment failure earlier or to access discontant clinical and immunologic findings in pastents in whom ART failure is suspected	6 months and then every 12 months	Every year, 2' available	Due to not- availability, VL is not recommended as a routine stat; rather targeted VL manitoring (for suspected clinical or inneurological failant) in recommended	Netrecommended	
	Vinsiogical failure threshold (copiesimt.)	VL >400 after 6 months post.ART or VL rebound to >400 after documented full suppression	VL >400 after 6 months post.ART or VL rebound to >400 after documented full suppression	Detectable VL 6 months after beginning or modification of ART or in individuals who maintained undetectable VL on ART	NA	Unknown	VL> 5000 after 6 months (or 12 months depending on time to balance monitoring; of correc treatment and well observed	VL >6000 after at least 6 months on ART	VL>10,000	VL.>1000	VL > 1000	VL >1000	VL >600 after 6 months on treatment	VL >5000	VL>6000	VL >5000	VL >10,000 after at least 6 months on ART	VL >1000 after 6 months on ART or viral rebound to >1,000 on two consecutive measurements after a period of viral suppression	VL >1000 after 6 months on ART or viral rebound to >1,000 on two consecutive measurements after a period of viral suppression	VL >400 after 6 months on ART, or VL >60 after 12 months on ART	Failure to reduce VL by at least 2 to 2.5 log to in HV RNA level after 24 weeks on ART	VL>1000	VL>1000	2 consecutive VL >6000 at least 6 months apart	24	VL > 1000	VL detectable after 6 months of ART, or when the VL is pensistendy >5,000	A less than 10 fuld drop in VL after 6-8 weeks of therapy, or VL >10,000	VL >1000 on 2 consecutive measurements & months after ART initiation	VL >60 after 6 months on ART on 2 consecutive measurements 2 months apart	VL >1000	VL>5000	

Abbreviations: ART = antisetroviral therapy; EID = early infant diagnosis, HTC = HV testing and counselling; NA - not applicable, PMTCT = prevention of mother to child transmission, VL = viral load

*Wost servingic tests are performed by rapid diagnostic tests measuring antibodies to HIV

Timing of Early Infant Diagnosis (EID) for HIV-Exposed Infants within 2 Months of Birth (Source: UNAIDS)

Morocco			•		-•		
Mexico Day 2	•	•	•				•
Malaysia	•	•	•				
Ukraine			•				•
Rwanda, Zambia					•		-•
Cote d'Ivoire, Thailand			•				•
Angola, Botswana, Burundi, Cambodia, Democratic Republic of Congo, Indonesia, Mali, Myanmar, Peru, Tanzania, South Sudan, Viet Nam <i>(WHO recommendation)</i>			•		•		
Brazil, Haiti, Mozambique, <mark>Venezuela</mark>							
Benin, Burkina Faso, Cameroon, China, Dominican Republic, Ethiopia, Ghana, Guinea, India, Kenya, Lesotho, Malawi, Namibia, Nepal, Papua New Guinea, South Africa, Swaziland, Uganda, Zimbabwe	 2	- 	4 Weeks	-	• 	-	+> 8

 In 2013, the percentage of HIV-exposed infants receiving a virological test within 2 months of birth was <30% in countries in red and >70% in countries in bold (source: UNAIDS GARPR 2014).

• Eleven countries without recommendations and two countries (Nigeria and Sudan) recommending EID at first encounter are not shown.

Frequency of CD4 Testing after ART Initiation from 55 Low- and Middle-Income Countries (Source: UNAIDS)

FREQUENCY	NO. OF COUNTRIES	COUNTRIES
Month 1; 3-monthly thereafter	1	Madagascar
3-monthly	1	China
Every 3-4 months	2	Malaysia, Sierra Leone
Every 3-6 months	4	Angola, Argentina, Pakistan, Ukraine
Month 3 and 6; 6-monthly thereafter	2	Botswana, Burkina Faso
Month 3; 6-monthly thereafter	2	Nigeria, Swaziland
Every 4-6 months	3	Chile, Dominican Republic, Mexico
6-monthly <i>(WHO recommendation)</i>	31	Benin, Brazil, Burundi, Cambodia, Cameroon, Colombia, Cote d'Ivoire, Democratic Republic of Congo, Ecuador, Ethiopia, Guatemala, Guinea, Haiti, India, Indonesia, Lesotho, Mali, Mozambique, Myanmar, Nepal, Niger, Papua New Guinea, Peru, Rwanda, South Sudan, Sudan, Tanzania, Thailand, Viet Nam, Zambia, Zimbabwe
Every 6-12 months	1	Venezuela
Month 6; yearly thereafter	1	Ghana
In case of virologic failure	1	Namibia
Month 12	1	South Africa
Not recommended	3	Kenya, <mark>Malawi</mark> , Uganda
Recommendation not available	2	Morocco, Senegal

Note: Availability of CD4 testing services is limited in at least 18 countries in red.



Note: Tanzania recommends routine VL for monitoring but it is not essential

Recommendations on the Frequency of Viral Load Testing for ART Monitoring (Source: UNAIDS)

MONTH AFTER ART INITIATION	Month 2	Month 3	Month 6	Month 9	Month 12	Month 15	Month 18	Month 21	Month 24	Post the last VL test
Angola, Burundi, Chile*, Dominican Republic, Ecuador, Guatemala, Malaysia*, Mali, Mexico*, Myanmar, Nepal, Niger, Nigeria, Pakistan*, Papua New Guinea, Venezuela, Viet Nam			1		1		1		~	6-monthly
Colombia	 Image: A start of the start of		 ✓ 		✓		 ✓ 		✓	6-monthly
Botswana, Peru		 ✓ 	√		√		√		 Image: A start of the start of	6-monthly
Brazil, Sierra Leone		√		 ✓ 		1		√		6-monthly
Benin, Kenya, Lesotho, Namibia, South Africa, Sudan, Thailand <i>(WHO recommendation)</i>			1		1				1	Yearly
Burkina Faso, China, Ghana, Madagascar, Uganda, Zambia			1				1			Yearly
Guinea, Rwanda					√				 Image: A start of the start of	Yearly
Malawi			 ✓ 						 Image: A start of the start of	Biennially
Cambodia									✓	Yearly

Note: This table does not include Argentina, which recommends viral load monitoring at 4-6 weeks and then every 3-6 months. *While Chile, Malaysia and Mexico recommend viral load monitoring every 4-6 months, Pakistan recommends it every 3-6 months. The frequency of VL testing is not available for Tanzania. Changes in the recommendation on the use of viral load for monitoring of people on ART in 15 high-burden countries

