



The Diagnostic Needs of Women: Overview of WHO recommendations

Meg Doherty, MD, PhD, MPH WHO Geneva ICASA 2019 Kigali, Rwanda December 2, 2019





HIV testing



Important gateway to treatment and prevention for individuals, <u>couples</u>, and <u>partners</u> and families

Facility-based: Offering HIV testing in a facility, e.g. VCT, in-patient and out-patient clinics, ANC, TB, STI.

Community-based: Offering HIV testing in natural setting of the community, e.g. outreach, CBOs, workplace, clubs, bars.

Assisted partner notification: Assisting individuals with HIV by contacting their sexual and/or drug injecting partners and offering them HIV testing services.

HIV self-testing: Offering self-test kit for individual, and/or their partner, enabling them to collect their sample (oral or blood), perform test, and interpret results in private. **All reactive results need confirmation.**



HIV self-testing for increased case-finding





- HIVST requires self-testers with a reactive (positive) result to receive further testing from a trained provider using a validated national testing algorithm.
- All self-testers with a non-reactive test result should retest if they might have been exposed to HIV in the preceding six weeks, or are at high ongoing HIV risk.
- HIVST is **not** recommended for people taking anti-retroviral drugs, as this may cause a false non-reactive result.

*Any person **uncertain** about how their self-test result, should be encouraged to access facility- or community-based HIV testing



Dual HIV-Syphilis Test



ANC = antenatal care

Source: Storey A, Seghers S, Pyne-Mercier L, Peeling R, Newman Owiredu M, Taylor M. Syphilis diagnosis and treatment during antenatal care: the potential catalytic impact of the dual HIV and syphilis rapid diagnostic test. Lancet Glob Health. 2019; 7(8): e1006-e1008.

Differences in coverage of testing for HIV and syphilis in pregnant women visiting ANC in 10 countries, 2016–2018 World Health

Organization









Centralized

Pipeline products



Multiplex/polyvalent technologies that can or will likely be able to test for HIV and another disease assay (ie. TB, HCV, HPV, etc)



Advanced HIV disease guideline

Advanced HIV disease is defined as CD4 count < 200 cells/mm³ or WHO clinical stage 3 or 4.

(All children < 5 years old are considered having advanced disease.)

 In a study from Kenya, Malawi, Uganda and Zimbabwe, almost half (47%) the people with CD4 count < 100 cells/mm3 were classified as having WHO clinical stage 1 or 2 disease.
Hakim NEJM 2017



Management of advanced HIV disease

A package of interventions including screening, treatment and/or prophylaxis for major opportunistic infections, rapid ART initiation and intensified adherence support interventions should be offered to everyone presenting with advanced HIV disease.

(Strong recommendation, moderate-quality evidence)





Prevalence of cervical cancer in women living with HIV







Infant diagnosis





- Moving to a multi-HIV NAT algorithm
 - Birth (where of value)
 - 6 weeks
 - 9 months
 - Any time HIV exposed infants present sick
- Ensuring confirmatory testing of a positive NAT result is undertaken
- Diagnosis is not completed without "final diagnosis" at the of the period at risk for transmission



Impact of POC testing – on identification and treatment initiation





Country	Setting	Device/ Sample	# of sites	n	% result return to caregiver		TAT result	% ART initiation		TAT ART Initiation
					≤ 30 [#] days	Same day	return	≤ 60 days	Same day	
Mozambique (Maputo, Sofala)	cRCT	AlereQ, WB	SOC - 8	1876	0.32%	0%	125	12.8%	NA	127
			POC - 8	2034	98.7%	98.2%	0	89.7%		0
Malawi	Observa- tional pre/post	AlereQ, WB	7 pre	963	18.1%	0%	56	41.9%	43.8%	38
			7 post	789	100%	99.5%	0	91.1%	70.7%	0

Call for diagnostic integration



As of 31 December 2017, a total of 9,449 GeneXpert instruments (comprising 42,392 modules) had been *cumulatively* procured in the public sector in 130 of the 145 countries eligible for concessional pricing.



Conclusions

- Optimizing and broadening HIV testing is essential to achieve the first 90
- Scale-up and improved access is critical and necessary across a number of diagnostics for people living with HIV, much of this scale-up can be supporting through diagnostic integration
- Women in particular require additional care, including for cervical cancer and infant diagnosis