

ADVANCED HIV DISEASE DIAGNOSTICS

(at different tiers of health care)

Where?

What test?

Who does the testing?

Provincial Hospital

(Specialists/senior lab techs)

- Bench-top CD4 platform
- Urine Determine TB LAM (*centrifuged or neat urine*)
- Immy Crypto Antigen test (CrAg); *or SemiQ CrAg*
- GeneXpert MTB/Rif (sputum/extra-pulmonary sample)
- HIV Viral Load (*DBS/plasma*), HIV genotyping
- Blood culture
- Giemsa staining/Flourescence microscopy/PCR/LAMP (for Pneumocystis pneumonia)
- Toxoplasma PCR

-Lab technicians (*for all lab based tests*),
- ALL blood samples with CD4<200cells/ul, must be reflex tested using CrAg and urine TB LAM tests

District Hospital

(Lab technicians and assistants)

- Bench top or POC CD4 (FACScount/*Pima/FACS Presto/Partec*)
- Urine Determine TB LAM (*centrifuged or neat urine*)
- Immy Crypto Antigen test (CrAg); *blood (plasma/serum/csf) or Semi-Q CrAg test*
- GeneXpert MTB/Rif (sputum/extra-pulmonary sample)
- HIV Viral Load (*DBS/plasma*)
- Blood culture
- Giemsa staining/Flourescence microscopy/PCR/LAMP (for Pneumocystis pneumonia)

-Lab technicians (*for all lab based tests*).
- ALL blood samples with CD4<200cells/ul, must be reflex tested using CrAg and urine TB LAM tests

Primary Care Or Community Health Centre

(Health care professionals, but no trained lab personnel)

- POC CD4 (*PIMA/FACS Presto/Visitect Omega LFA/Partec etc.*)
- Urine Determine TB LAM (*centrifuged or neat urine*)
- Immy Crypto Antigen test (CrAg); *blood (plasma/serum) or SemiQ CrAg test*
- PHC with lab space can get GeneXpert (MTB/Rif, HIV VL)

-Lay cadres (*Health diagnostic Assistants, Counselors etc.*)
-Clinicians (*nurses, doctors*). Select Overall Responsible person for diagnostics

Advanced HIV Disease screening package: Primary Health Care level (CD4 < 200 or symptomatic)

PIMA

25mins to result
2-3 samples per hour
\$6-10 per test (excl device)



BD FACSpresto

25mins to result
8-10 samples per hour
\$6-10 per test (excl device)

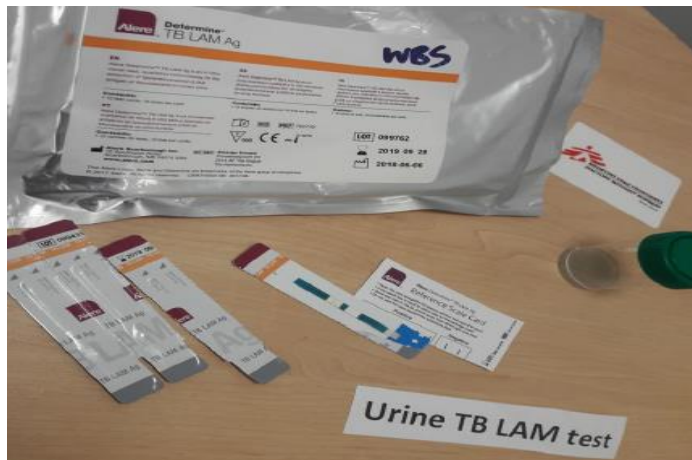


Omega Visitect LFA

40mins to result
\$5-6 per test



Alere Urine TB Lam (25mins to results; \$3.5 per test)



IMMY CrAg LFA (10mins to result; \$2 per test)



GeneXpert:

HIV VL, MTB/Rif.

(Optional device for resourced bigger Health Centers)

In the near future:

FujiFilm urine TB LAM, Semi-Quant CrAg, HIV POC ARV levels, HIV POC Genotyping