ADVANCED HIV DISEASE DIAGNOSTICS
(at different tiers of health care)

Where?

- Provincial Hospital (Specialists/senior lab techs)
- District Hospital (Lab technicians and assistants)
- Primary Care Or Community Health Centre (Health care professionals, but no trained lab personnel)

What test?

- 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

- 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)

- POC CD4 (PIMA/FACS Presto/Visitecot 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)

Who does the testing?

- Lab technicians (for all lab based tests), ALL blood samples with CD4<200 cells/ul, must be reflex tested using CrAg and urine TB LAM tests
- 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**
- 25 mins to result
- 2-3 samples per hour
- $6-10 per test (excl device)

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

**Omega Visitect LFA**
- 40 mins to result
- $5-6 per test

**GeneXpert**
- HIV VL, MTB/Rif.
- (Optional device for resourced bigger Health Centers)

**Alere Urine TB Lam** (25 mins to result; $3.5 per test)

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

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