HPTN Lab 0Site
ProbeTec – Lusaka

PROBE-Tec Chlamydia trachomatis and Neisseria gonorrhoeae Amplified DNA Assay

• Presented by
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• Centre for Infectious Diseases Research in Zambia.
The Probe Tec

- BD Probe Tec provides a procedure for qualitative detection of CT/GC.
- The assay uses SDA technology
SPECIMEN TYPE

- Urine-Neat/UPP
- Endocervical swabs
LYSED SAMPLES - Stability
Either urine or Endocervical Swabs

- RT up to 6 hrs at 18-30 degrees celcius
- Store up to 5 days at 2-8 degrees celcius, ensure vortexing prior to testing.
- Store up to 98 days at -20 degrees. Prior to testing thaw at RT, vortex and re-lyse
REAGENT STORAGE

• Store all the reagents at 2-33 °C
PROCEDURES
Sample Processing Urine Assay - Neat

• Collect 15-60mls 1st void urine
  – If stored at 2-30 °C, process within 30 hrs.
• Review the incomplete test work list - LIMS.
• Pipette 4.0mls into tube and cap
• Insert tube into lysing rack and pre-warm samples for 10 minutes.
• Cool at RT for 15 min up to 6 hrs
• Centrifuge at 2000 Xg for 30 min
• Decant and add 2mls diluent and proceed as per SOP
Sample Processing
Urine Assay - UPP

- Clean forceps with alcohol and remove the urine PP from envelope.
- Do not contaminate the forceps by touching the urine container.
- Process one urine at a time, recap before opening the next sample.
- Allow the UPP to be in urine for at least 2 hrs
- Pipette 4mls and centrifuge for 30 min at 2000Xg.
- Decant and add 2.0 mls of diluent and proceed as per your SOP
Q.C

- Positive and Negative controls are run with each run
- Place the Positive control before the negative control
RESULTS REPORTING

• Negative- MOTA count less than 2,000
• Low Pos-MOTA count between 2000 and 9,999
• High Pos- MOTA count equal or greater than 10,000
• All positive samples are repeated.
FACTORS AFFECTING RESULTS

- Disinfection
- Pipetting
- Changing of gloves
- Inadequate blotting of urine from tubes after centrifugation
THANK YOU
Proposed CIDRZ Strategic Plan

Lusaka Province
• Kafue District Hospital

Eastern Province
• Chipata Regional Hospital
• Petauke District Hospital
• Lundazi
Proposed CIDRZ Strategic Plan

Western Province
• Lewanika
• Sesheke
• Senanga
• Kalabo

Southern Province
• Chikankata
• Monze
• Choma
• Mazabuka
• Nakambala
• Livingstone
Proposed CIDRZ Lab Support for Provinces

Instruments
• Reagents
• Service contract

Training
• QA/QC
• Instrumentation
• Lab systems

Monitoring
• QA/QC
• Reagent, supplies and equipment
CIDRZ will work with MoH and other partners to:

- Coordinate the purchase of appropriate CD4 testing or other lab capacity for regional & district facilities
- Service contract
CD4 instrument analysis

- BD FACSCaliber and FACSCount
- BC Epic XL
- Sysmex POCHI – hematology plus CD4
- Guava
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CIDRZ
Reagents

• CIDRZ will endeavor to supplement the existing government system where short falls exist
Training

Support & improve existing systems
- Instrument operation
- Trouble shooting
- Preventive maintenance techniques
- Testing procedures
- Quality control testing and analysis
- Good Lab Practices
- Quality assurance
Monitoring

- QA/QC - ongoing
- Instrument service program
- Reagent and supplies
- Competency of technologist
QA/QC Program

- Ensure standardized mode of operation
- Enrollment in External QA Programs
- Competency check programs for Lab Staff
- QC/QA Program is “full time” commitment

To ensure proper ART patient care CIDRZ will implement in conjunction with CDC & MoH
Summary

Lab support is an integral part of ART scale-up for safe patient care and requires:

- Proper systems
- Ongoing quality control monitoring
- Adequate logistical support
Discussion