Laboratory Capacity Building

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CD4 and Viral Load Monitoring Technologies

for the Resource- Limited setting Satellite Symposium,

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Laboratory Capacity – What are the issues ?

- Universal access to prevention, treatment and care for individuals affected by HIV and other major diseases such as TB and malaria requires safe, appropriate and reliable laboratory and diagnostic services
- This support is needed to ensure :
 - » Prevention measures
 - » Surveillance
 - » Diagnosis and treatment
 - » Monitoring (treatment and resistance)
- Scaling up access to essential health services
 - health services need to be close to the clients
 - scaling up implies that health services need to be able to deliver the essential laboratory and diagnostic support in an equitable manner



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Major challenges at country level

National level

- Failure to implement National Policies and guidelines
- Weak national systems (regulatory/ laboratory networks)
- Disparity between urban and rural areas
- Weak procurement and supply systems
- Poor renummeration of health care staff

Institutional level

- Lack of infrastructure, organization and management
- Insufficient and high turn over of skilled staff
- Variable quality of laboratory performance
- Lack of maintenance of equipment, inappropriate donations



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Our Response

- Advocacy and sensitising of policy-makers and key stakeholders
- Sharing of information on technologies
- Evaluation of new diagnostics, laboratory technologies and procedures
- Norms and standards, guidelines on appropriate use
- Facilitate access to technologies
- Strengthen laboratory and diagnostic services
 - Training of trainers training materials
 - Follow up EQA programmes
- Country projects
- Foster collaborative partnerships
 - (UN agencies, WCC, GFATM, CDC, industry)



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Laboratory Capacity Building – What has been achieved ?

• WHO- AFRO Satellite meeting :

HIV/AIDS Laboratory Capacity: How far we have come and where are we going

Monday 14 August 06 4-5:30 pm, Royal York Hotel, British Columbia Room

- CD4 technologies
 - ✓ Advocacy to countries
 - \checkmark Sharing of information
 - ✓ Training and training materials (English, French, Spanish)
 - ✓ Centres of excellence to support EQA programmes
 - Africa Central America South East Asia



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Laboratory Capacity Building

Viral Load technologies

- ✓ Advocacy to countries : availability at central level
- \checkmark Sharing of information
- ✓ Guidance and training materials, in progress

• Early detection of HIV infection, including Infant diagnosis

- Statement on early diagnosis of HIV infection of infants exposed to HIV
- Guidance on Diagnosis of HIV in infants and clinical staging in adults and children
- Filter paper approach
- EQA programmes, in progress



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Success stories: Improving Laboratory services

- at the **district level** in East Africa
 - Kenya, Tanzania, Uganda and Zanzibar
 - AMREF
- National Laboratory Policy guidelines
 - Administrative structure
 - Essential tests, techniques, equipment
 - Facilities and staffing
 - Training needs
- Introduced quality assurance programs
 - Standardized tests
 - Quality manual for clinical and lab diagnostic services
 - Technical information sheets
 - training
 - EQA
- Reach out to services users (Physicians)

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To conclude : impact at country level

- Policies that build sustainable integrated laboratory and diagnostic services
- Appropriate technologies
 - validate procedures, technologies and products
 - safety and quality standards and norms
- Increased availability of appropriate reagents and • equipment at reasonable cost, and maintenance
- Improved performance of laboratory and diagnostic services
 - Share information and expertise via networks,
- **Stronger partnerships**

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Regularly updated Website

 www.who.int/diagnostics_laboratory



Thank you



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