Africa Public Health tory Networking Project (EAPHLNP)

Quarterly Charles Lab Network Newsletter



Cutting Edge Diagnosis for

Tuberculosis Launched in Kenya (Gene-Xpert Technology to markedly reduce time to



The Ministry Of Public Health and The Ministry Of Public Health and Sanitation through the Department of Disease of Department of Disease GeneXpert systems to be used in six laboratories aeross the country. This was done during a launch and handling over ceremony held at the National Public Green on the Alboratory Grounds, Nairobi on Friday March 16th 2012. The system is a diagnostic and research based equipment Friday March 16th 2012. The system is a diagnostic and research based equipment for the diagnostic and research based expression of patient samples (specimens) and provides both summarized and dereiled test results done (specimens) and provides both summarized and detailed test results data tabular and graphic formats. The GeneXpert system uses GeneXpert cortriduce soluted sympolical by Corpheid, a GeneXpert system uses GeneApert cartridges which supplied by Cepheid, a leading molecular diagnosties company thatdevelopsmanufactures, and markets tnaticvelopsmanutactures, and markets accurate yet easy-to-use molecular systems and tests.

Speaking during the launch, the Director of Public Health and Sanitation Dr. Sharif

said effective diagnostic services essential to a functional health care system and that laboratories provide and that laboratories provide confirmatory diagnosis giving essential information for disease management, surveillance and response to outbreaks. He reported that TB in Kenya is still a public breath problem and that laborators He reported that TB in Kenya is still a public health problem and that laboratory diagnosis forms a key pillar in management of tuberculosis and that is the resety where the World Bank funded. management of tuberculosis and that is the reason why the World Bank funded the reason why the World Invested over Ksh. 44 million in the six GeneXperts systems, simple and enhust instruments to be used. simple and robust instruments to be used outside of conventional laboratories outside of conventional laboratories appropriatefor the district and sub district hospitals close to runal patients. This investment is expected to reduce the paragraphs of the free cample delivers in investment is expected to reduce turnaround time, from sample delivery to use of results in treatment, to less than two hours. Compared to the traditional methods of testing which involved culture of samples for tuberculosis causing bacteria followed by testing with antibiotics to determine suitability of

Editor's Note

s the East Africa Public Health Networking Project nears it mid- term review, activities an being accelerated to arrive at targets se in the results framework. Of notab in the results Harnework Of Robard interest is the introduction of the cutting edge TB diagnostic roots to the euting edge TB diagnostic rools to the project using the GeneXpe equipment, amongst others. This is addition to the construction of satellite labs spread across the coun that will commence by the turn of financial year.

interesting read in giving the prog of the various components of project in the last quarter as wel cumulatively, on the road transforming laboratory services Kenya, as well as in the East Afr region. The countries are also in region. The countries are also progress of cstablishing platform farilitate sharing of informations. facilitate sharing amongst all stakeholders.

makes its debut into the project-completes the coverage of the p in the entire East African block a sure the new country on board is i



selected medicines, this have a major impact on patient disease control by reducing par disease control by reducing pa-diagnostic delays, decentralizing of Multi Drug Resistant Tuk (MDR-TB) hence accelerating access to appropriate care.

The team then conducted a brid The team then conducted a Di-the National HIV reference labor

Report by; Joshua K. Rotich

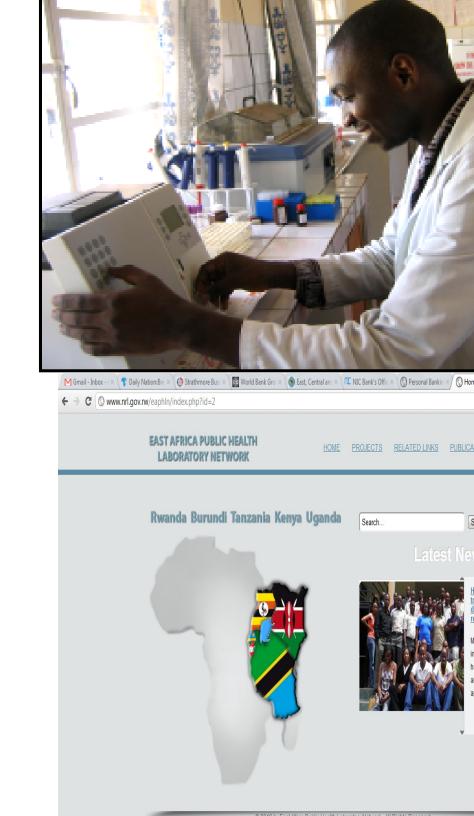
Chris Masila, MOH, KENYA Miriam Schneidman, WORLD BANK Moses Joloba, Makerere University, Uganda

outline

Background

Key Achievements

Gene-Xpert Update



gh rates of TB & TB/HIV (hbdc) in East Africa with countring similar challenges to diagnosis and treatment

rge pipeline of **new diagnostic tools** presents an portunity to enhance clinical care for TB/HIV co-infected rsons and those suffering from MDR-TB

owing recognition of importance of laboratories which expenses the common control of the con

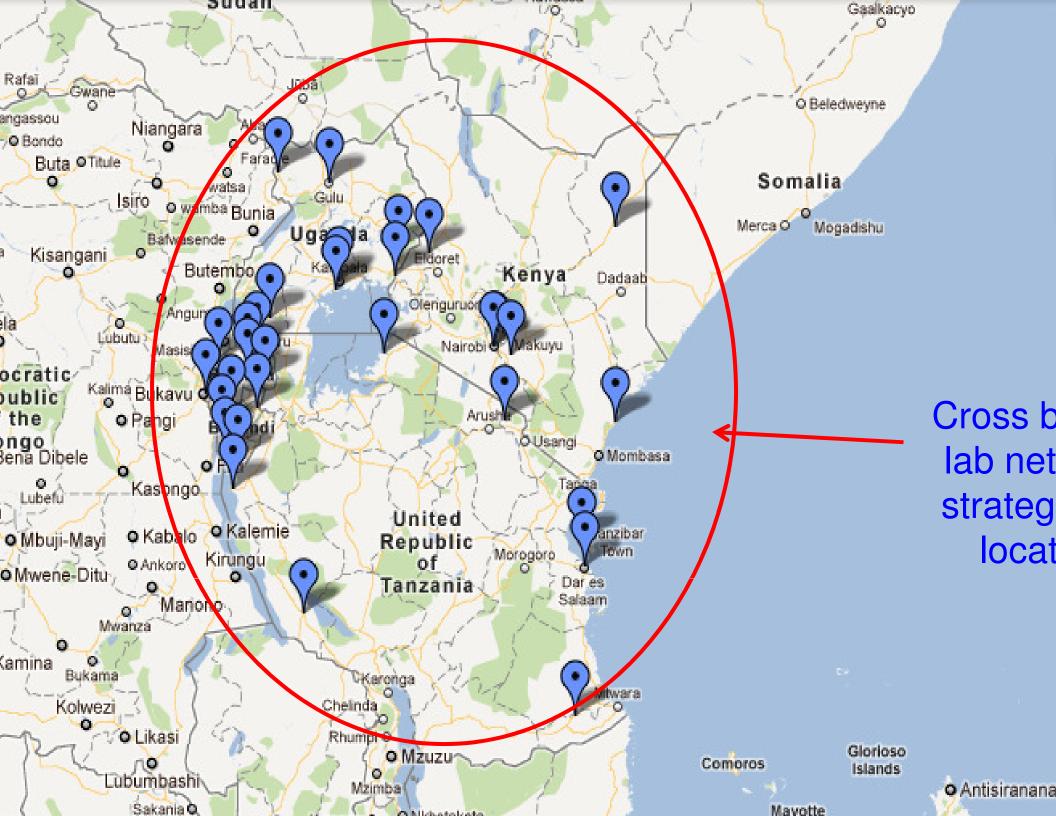
prevent and control the spread of TB and other

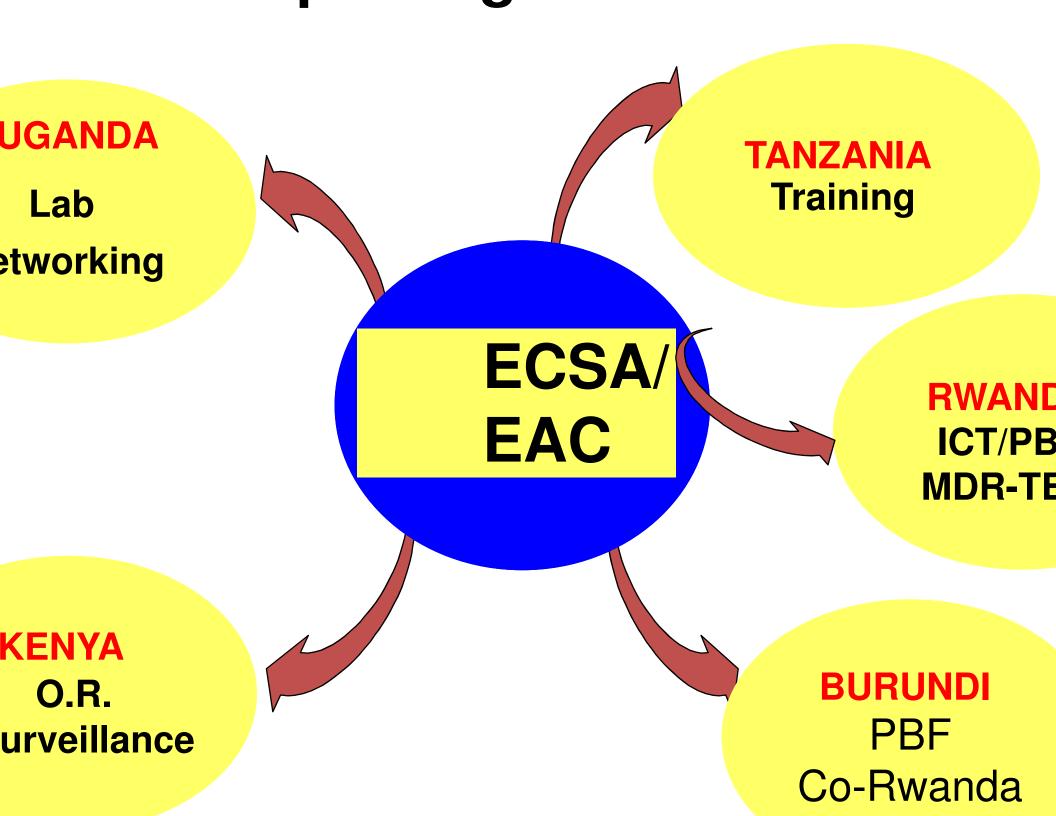
Strengthening diagnostic and surveillance capacity, romoting innovations, and specialization in service delive NRL, SRL)

supporting training and capacity building for lab rofessionals, including mentorships, pre service & ontinuing professional development

ostering knowledge sharing and South-South ollaboration and promoting evidence based approach

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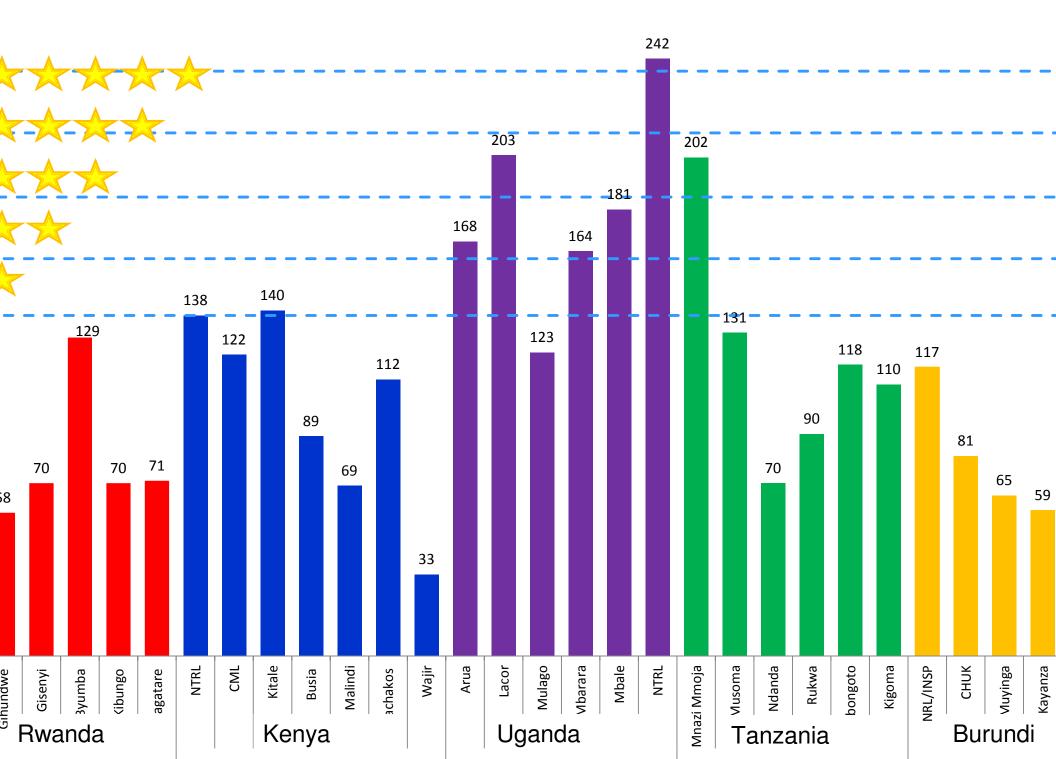
onducting peer assessments
31 satellite laboratories in 5
untries using SLIPTA

nking lab improvements
ans to accreditation and
oting use of performance
ased financing for laboratories

rengthening TB reference and satellite laboratories rough provision of advanced equipment and enhanced frastructure



ults from Peer Assessment of Satellite Laboratories (SLIPTA approa



onducting joint training for coratory management; lab sessors; and developing e-arning modules

rrying out joint cross rder investigations and sease outbreak simulations

pporting design of web sed mobile phone disease rveillance reporting

eveloping multi-country erational research oposals (TB, malaria,



New TB Diagnostics

nerate evidence for early and increased detection and pronagement of TB patients

id waste of resources associated with empiric managen mear negative TB

duce data that will contribute to policy & programmation and patient management

Research Questions:

What is the **impact of introducing new TB diagnostics on the** management of TB and on patient outcomes?

What is the **performance of various combinations of new TB diagnostic tests**? Gene Xpert; OSSM and Gene Xpert; OSSM, Xpert, MGIT

participating countries endorsed use of this novel technology. TB diagnosis and aim to roll this out quickly to serve linerable populations in cross border areas

Kenya – 6 machines (delivered & installed)

Uganda – 11 machines (pending)

Tanzania – 7 machines (pending)

Rwanda – 5 machines (pending)

Burundi – 6 machines (not yet ordered)

Over 200,000 cartridges to be procured in 2012

HO/GLI guidelines and periodic updates are very helpful to untries

IO/GLI Roll out strategy utilized where the project facilitates ining and implementation with close linkages with NTP

e operational research under the project hinges on the pron livery of the Gene-Xpert machines ifficulties and delays in procurement of Gene-Xpert due to otracted discussions over bidding documents with the manufact oposing a simplified document which is not consistent with Bankountry regulations

l**inicians are yet to be fully sensitized** hence machines maybe ace but are not being optimally utilized

adequate planning for consumables with some facilities operiencing stock outs; need to institutionalize supply of consuma

ack of back up power at some facilities which implies machines of the fully utilized or reagents may be wasted; installation of solar parts of solar parts of the first of the factorial solution to this issue

a major milestone in diagnosis T

This is particularly important fus in Wajir where patients travely hundreds of miles to g



these services

Dr Njoroge Fran Medical Officer (Wa

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- Chakaya