

## **Health Information Management: Adoption and rollout of GeneXpert Lab Information Management System (GXLIMS) in Kenya**

The DNTLD Program implements the use of GeneXpert for TB diagnosis at the facility level. For purposes of availing case based data and reports, the TB program developed GxLIMS in 2013 and fully rolled out in 2014. Key objectives for adoption of GXLIMS were to increase Lab efficiency and effectiveness through automation of data management and retrieval, generation analytics and reports, result dispatch, better commodity management as well as monitoring and evaluation of performance indicators for GeneXpert sites. Currently, 193 GeneXpert machines are able to report via this system. Within the 47 counties, training has been done for at least five lab staff and a super user who supports routine preventive maintenance in each county. The system is hosted externally in the cloud management. For result upload, GxLIMS relies on another system known as GxAlert that pulls results from each machine and pushes it to GxLIMS. Currently, funding is being sought to upgrade to the new version of GxAlert (Aspect) which will enable reporting for all the Assays (MTBRIF Ultra, HIV-EID & VL, True Nat and SARS-COV 2) within the GeneXpert machine. Other diagnostic tools to get support from this LMIS reporting tool will be True Nat and MGIT in results transmission. The system has revolutionized the diagnosis and management of TB in the Country by enabling relay of critical information.

### **Key words**

Tuberculosis, Diagnosis, GeneXpert, Network, Optimization

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