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Poster Title: Improving HIV-control program effectiveness by replacing bicycle rides with an e-health system in Uganda. Presented at Global Digital Health Forum 2017, at JW Marriott in Washington DC, United States.

A.Introduction

A major bottleneck in Uganda healthcare is the exchange of information between clinics, test labs and patients. Patients seen in a remote clinic for TB/HIV testing currently have to wait at least 10-14 days for the test result



To evaluate the effectiveness of the digital gadget over motorcycle hub riders in the transmission of laboratory results to and from the health facilities.

Specifically

- i. To address challenges of turnaround time, data quality and accessibility by replacing motorcycle specimen riders with a fully-fledged mobile e-service system structured to enable automatically transmitting EID/MDR/viral load count results from the testing laboratory to rural health facilities
- ii. Compare data transmission timelines of results by courier/motorcycle and by the electronic system
- iii. To assess the electronic systems' ability to increase patient involvement and adherence, by increasing the numbers of patients tested and initiated on HIV/TB treatment, and by improving the ability of tracking patients' records.



C. Methodology



Lab Specimen & Results Delivery Path



Connecting patients



- D. Outcomes
- A modernized system for information and results delivery
- Better tracking of patients records in local health clinics
- A higher number of patients on optimal HIV/TB treatment
- An improved situation with respect to preventive measures

E. Conclusions/Applications

The envisaged system will open up a more efficient and modern way to deliver laboratory results to rural clinics that can be used for and beyond HIV programs; allow for fast contact with patients, further enhancing chances they will be retained in the healthcare system; allow for decent electronic tracking of patient records, even making it possible to track health data of patients that are very mobile.