



DISCUSSION:

Logistics of Implementing Geenius at MTN Sites

Lab Breakout

MTN Regional Meeting, Cape Town

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Overview of Geenius System

Bio-Rad Laboratories  INFECTIOUS DISEASE TESTING

Geenius HIV 1/2 Supplemental Assay



Running the Assay

<https://www.youtube.com/watch?v=IXaRXYsI8aM>



The Geenius System

Have you ever seen or used a Geenius System at your site or at any local labs?

If YES, what are your impressions of it?

If NO, what are your impressions based on the movie?

If you had a Geenius, what would you use it for?
Only MTN studies, other network studies, local care, other?

Geenius vs WB

- All labs currently use WB for HIV confirmation.

For your site, what are the PROS of switching to Geenius for HIV confirmation?

For your site, what are the CONS of switching to Geenius for HIV confirmation?

Geenius Logistics

- For the Geenius System, you need:
 - Bench space in the clinic stat lab 1-2 Geenius units attached to laptops
 - Individual uninterruptible power supply (UPS) to be attached to the Geenius in the clinic?

Please draw a rough sketch of your clinic lab and describe where you will put the Geenius and how you will ensure power supply.

Where will you store Geenius kits?

Personnel

- The Geenius is classified as “Moderate Complexity” and must be performed by a laboratory technician (not nurse, physician or counselor).

Does your clinic always have a lab tech present? Who serves as backup if the lab tech is unavailable? Who will check the results?

What are your concerns about technician capacity in your clinics to operate the Geenius system or computer?

Geenius Training

- The Geenius training is done by webinar.
- There is a possibility of in-person “train the trainer”

Are your internet speeds fast enough to stream video for a Web based training? Is in-person training needed?

What is your assessment of how much staff training would be required for:

- 1. Manual interpretation of the test cassette**
- 2. Using the Geenius reader for results**

Visit Flow

- A participant comes to the clinic for her quarterly HOPE visit.
 1. She will need WHOLE BLOOD from VENOUS DRAW or FINGERSTICK for 2 RAPID TESTS
 2. She could need WHOLE BLOOD or PLASMA if confirmation with Geenius is needed
 3. She could need PLASMA if viral load is needed

Please describe the sequence and timing of blood draws for a participant with 2 positive rapids.

Resulting HIV Status

- A participant had the following test results at her HOPE visit:
 - POSITIVE Determine and OraQuick
 - POSITIVE Geenius

**When will you tell participant her HIV status?
After the rapid test results or after the Geenius
results? Will you counsel once or twice?**

**How long will it take to do all 3 tests? Will
Geenius be possible to do if the participant
comes in the afternoon?**

Additional thoughts

Please think of one question to ask the other sites.

Please think of one question to ask us.