

Global Health Systems Solutions

STRATEGIC & INNOVATIVE APPROACHES TO STRENGTHEN HEALTH SYSTEMS

Implementing the HIV Quality Assured Cycle Using Innovative Strategies: Cameroon Perspective

Juliana Ndasi, PhD

Deputy Executive Director

Global Health Systems Solutions (GHSS)

Cameroon

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Outline

- Introduction
- Innovative approach for implementing HIV Rapid test Quality Improvement Initiative (HIV-RTQII)
- Results
- Challenges and lessons learned
- Conclusions



Introduction

- About 20 million inhabitants; 4.3% HIV prevalence
- Scale up of PMTCT and option B+ is a priority
- 595 Sites enrolled in HIV rapid test proficiency testing program pass rate below 50%
- About 6% of people tested still receive false negative results and 2% receive false positive results
- 18% of HIV infected women received false negative results in last ANC survey

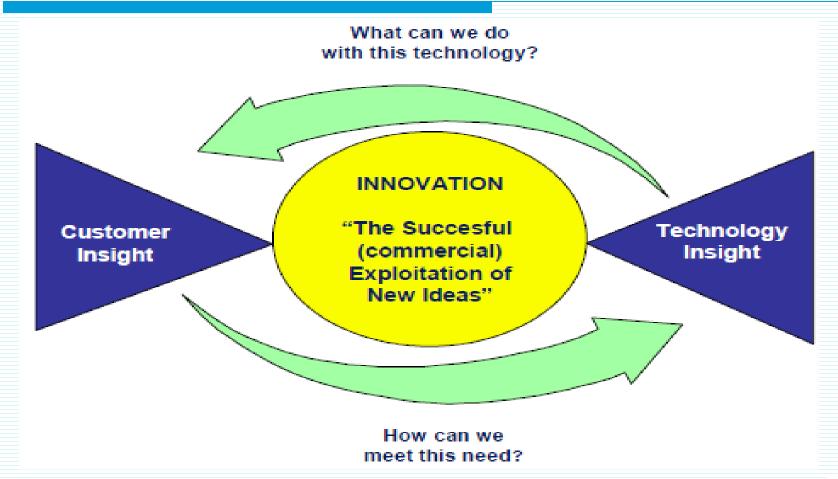
Innovative Approach for Implementing HIV Rapid Test Quality Improvement Initiative

(The use of Quality Corps Volunteers)

Mid-May to September, 2014



Key Elements of Innovation





Five Pillars of HIV Rapid Test Quality Improvement Initiative

Policy Engagement

Develop and implement policy

Engage stakeholders & advocate

Human resources development & certification

- Train and certify
- Create network of testers

Proficiency testing

- Participate in PT program (DTS)
- Analyze data for corrective actions

Standardized logbook

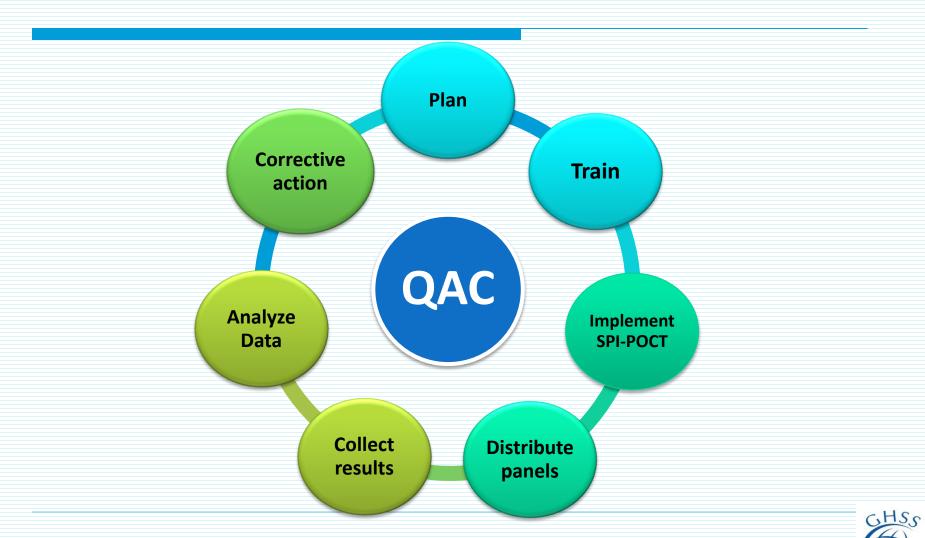
- Implement use of standardized logbook
- Analyze logbook data regularly for corrective actions

Lot testing & post market surveillance

Implement lot verification & PMS



Cameroon's Experience in Implementing the Quality Assurance Cycle



QAC Implementation Strategy



Engage Ministry of Health



2 Identify local partner and train trainers (TOT)



Recruit and train Volunteer Quality-Corps



Identify sites for pilot program



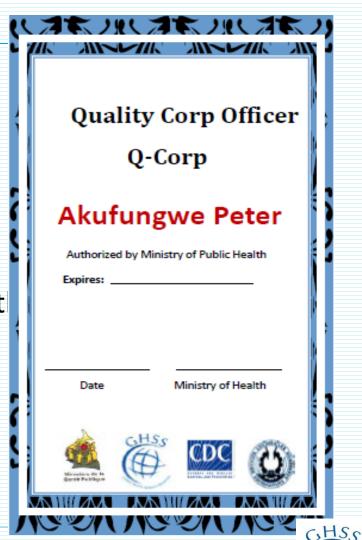
SPanel distribution



Supervision and corrective action

1. Engage Ministry of Health and Stakeholders

- Initiative endorsed by MOH
- Ministry proposed MOH Q-Corps hybrid
- MOH drafted memo to Regional Healt Bureaus
- MOH established badges for Q-Corps to facilitate access to facility



9 MOH Q-Corps selected

2. Identification of Local Partner and TOT

- Experience in laboratory program implementation
- Excellent collaboration with MOH and other lab stakeholder
- Identified 04 Staff as master trainers





3. Recruitment of Q-Corps

Local partner advertised applications recruitment of Q-corps in national newspaper

A Ninety (90) Panel review and selection Quality-Corps recruited





Training of Quality Corps

- Proficiency testing using DTS
- HIV logbook
- Site visits
- Electronic data entry
- SPI-POCT checklist





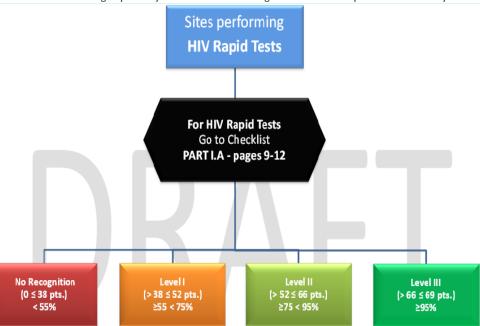
SPI-POCT Checklist

- Based on ISO Standards for POCT
- Two parts HIV RT and instrument based POCT
- Similar to SLIPTA checklist for laboratories

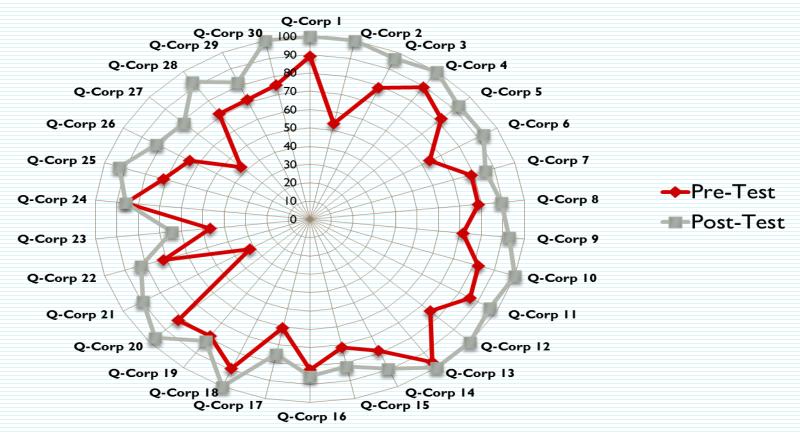
Stepwise Process for Improving the Quality of HIV-Related Point-of-Care-Testing (SPI – POCT)

PURPOSE

The Stepwise Process for Improving the Quality of HIV-Related Point-of-Care-Testing (SPI -POCT) checklist for use in HIV-related testing is primarily intended for use as a guide to assist and promote consistency in the

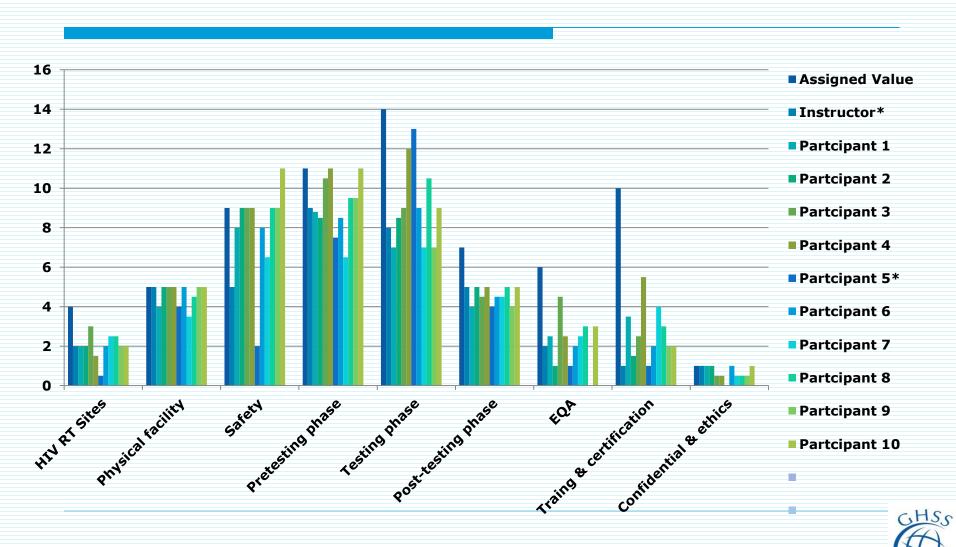


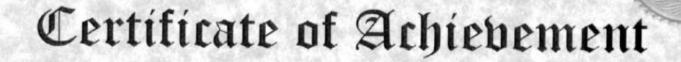
HIV RTQII Training – Pre and Post Written Assessment Individual Scores (N=30)





Performance of Quality Corps on Use of SPI-POCT Checklist (N=10) – Site A





This certificate is awarded to

ANNA GWANFOGBE KADAA

For successfully completing the core elements on the HIV Rapid Test Quality Cycle and is therefore certified as a Master Trainer. This certificate is valid 2 years as from the date of issuance.

Awarded this 9th day of May, 2014



Signature of Center for Disease

I Inano

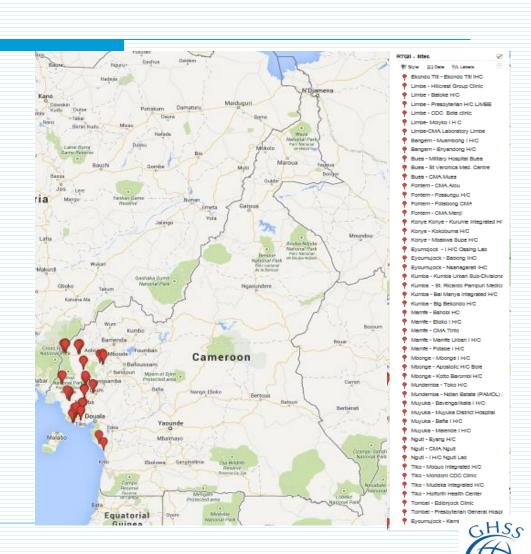
Control and Prevention



Signature of CADU

4. Identification of Pilot Sites

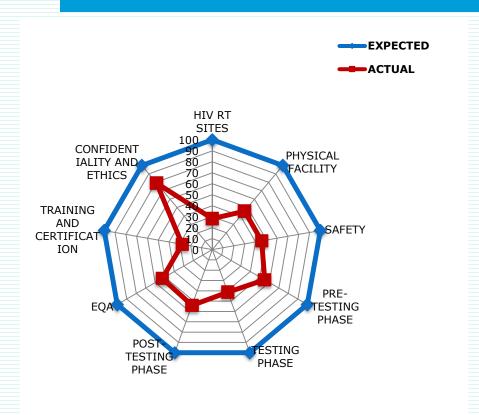
- 75 sites selected to pilot HIV-RTQII
- SPI-POCT checklist administered and data obtained from 73/75 sites
- Proficiency testing panels distributed to 50 sites

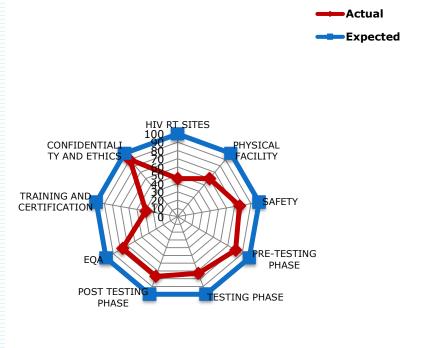


SPI-POCT RESULTS



SPI-POCT – HIV Rapid Test Section (N=73)

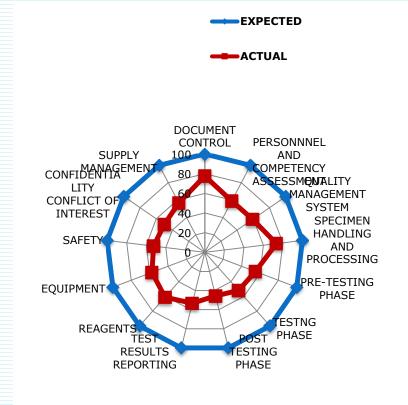


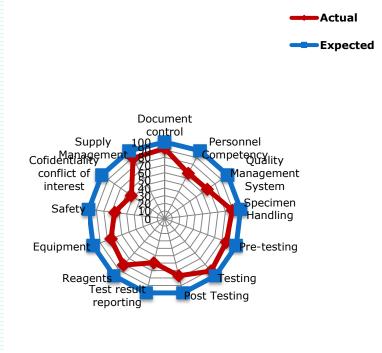




June 2014 September 2014

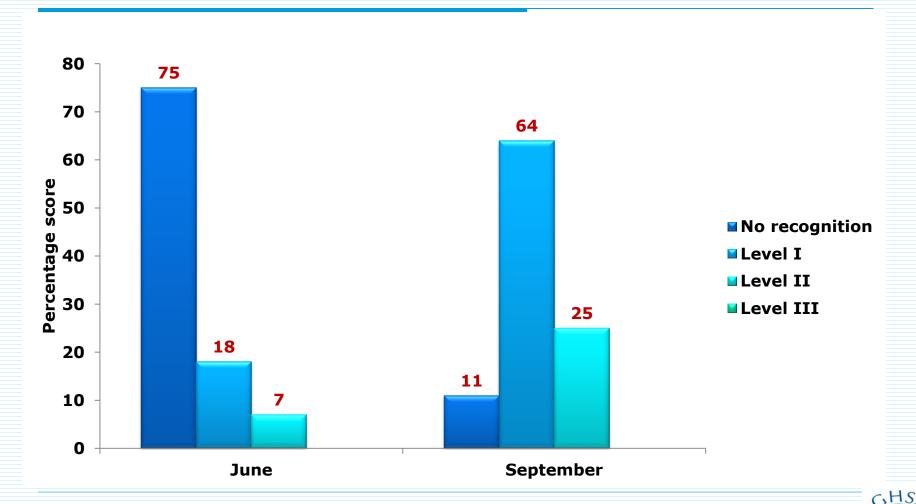
SPI-POCT – Other HIV Related POCT (N=10)





CHSS

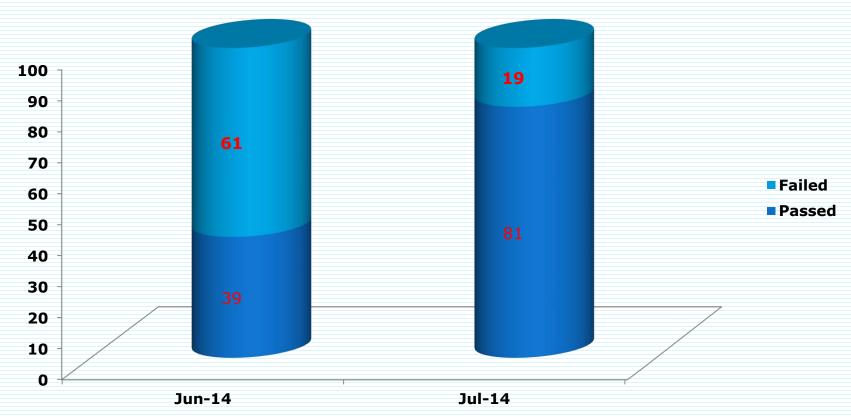
Trends in SPI-POCT Rating



PT DATA ANALYSIS

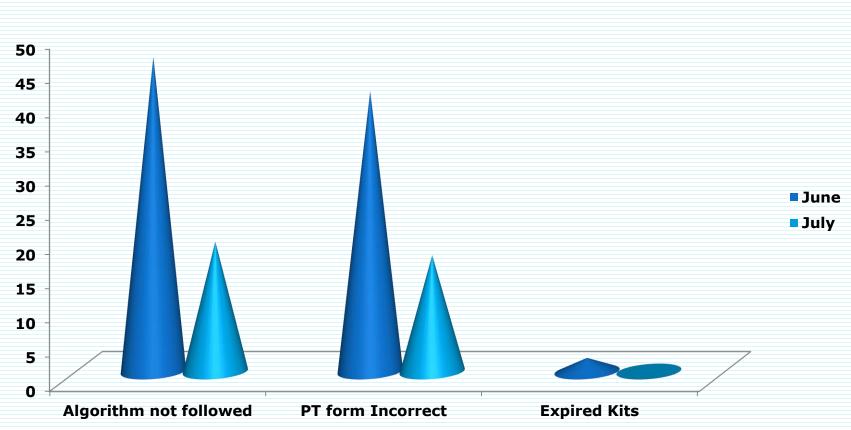


PT Performance Rate (N=47)





REASONS FOR UNSATISFACTORY RESULTS

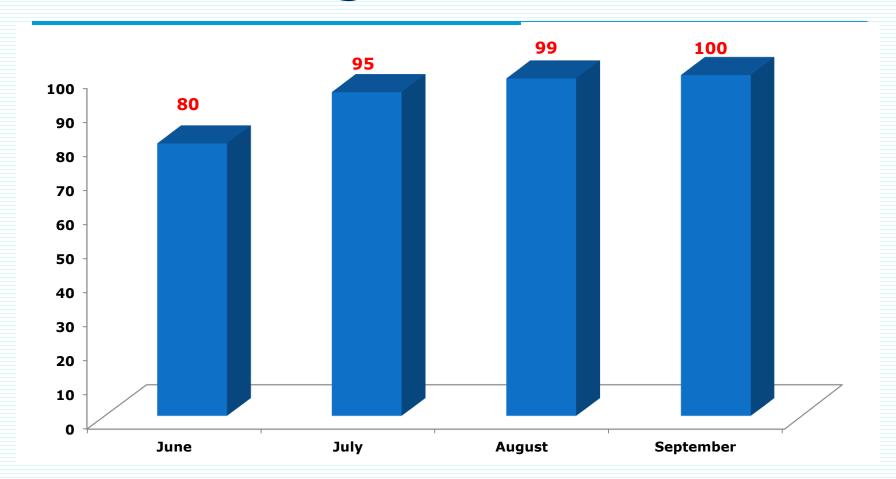




LOGBOOK DATA ANALYSIS

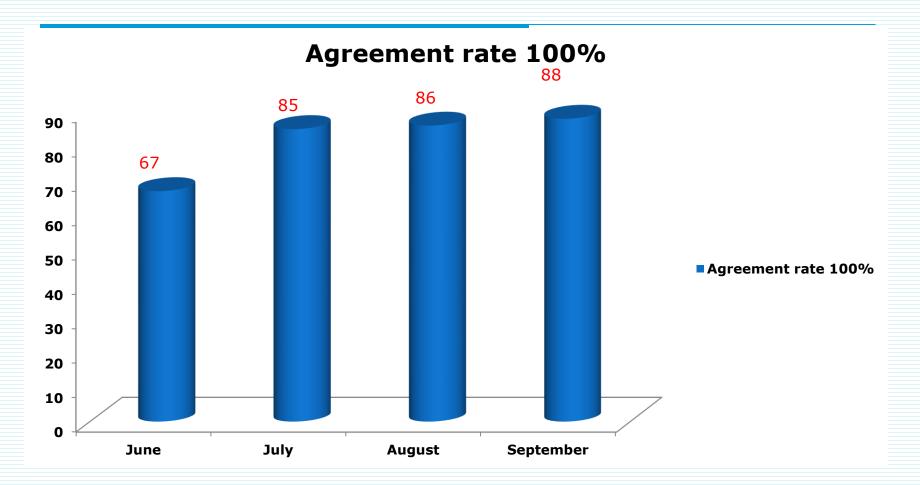


Sites with Logbooks





Site Performance





In Cameroon, Improving HIV Diagnoses through a Volunteer Quality Corps

Cameroon has an HIV prevalence rate of 4.3% in adults, [1] one of the highest in West and Central Africa, with an average of 34,754 new HIV infections annually. [2] Despite increasing access to antiretroviral drugs, Cameroon is not on track to meet the Millennium Development Goal of halting and reversing the spread of HIV/AIDS by 2015. [3] While health education and treatment are essential, access to reliable, accurate HIV rapid tests is also critical. False positive and false negative results can have a detrimental impact on treatment options and the spread of the virus, raising significant public health concerns. Global Health Systems Solutions (GHSS), an NGO based in Cameroon, has attempted to address the recurrence of inaccurate HIV rapid test results in the country. Though GHSS implemented measures to conquer this problem of inaccuracy, it discovered a central obstacle to its goal: a lack of human resources. To ensure the generation of high-quality test results, it is necessary to strengthen the capacity of clinical laboratories

By: Jessica Fried, MPH (Editorial Team); Contributors: Nzang Frankline Ajoeh (Bota District Hospital, Limbe), Ewoukap Maccollins, BSc (Q-Corps), Juliana Ndasi, PhD (GHSS), Priscilla Bobimwoh Mosoke (GHSS), Anna Kadaa Gwanfogbe (GHSS), Mongu Beatrice Mangwa (GHSS), Simon Achakeng Nkemasong (GHSS), Aji Desmond Abang (GHSS), Awungafac George (GHSS), and Judith Ndofor Meya-nui (GHSS)

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Challenges

- Lack second Line testing reagent
- Difficult access to some facilities
- Improper filling of the logbook
- Site temporary shutdown and staff unavailable



Q-Corp on the way to Ekok Integrated Health Centre in Eyumojock



Crossing a bike under a tree that fell across the road



Lessons Learned

 Review potential of Q-Corps intervention

 Exploiting the usage of available local resources

 Review training package to include more hands-on

Enthusiasm and satisfaction of quality corps

.....Glad to be a pioneer Q-corps and contribute to ensure accurate HIV testing

....Training improved my knowledge on QA



Conclusions

- Significant reduction in turn around time 30 days to 5 days
- Improvement in the performance of site and testers PT (39 81%), Agreement
 Rate (67 85%)
- Timely reception of logbook data for analysis
- Onsite provision of supplies and corrective actions
- SPI-POCT rating Level 1 (18 64%), Level 2 (7 25%)
- MoH engagement is indispensable
- Initiative is feasible and profitable



Acknowledgement

Cameroon

- MOH/Lab Directorate
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USA

- OGAC
- PEPFAR HQ
- CDC Atlanta





Remember the strategy of the thirsty vulture!



THANK YOU!



