Case-Based Surveillance, Covering the last mile in HIV Epidemic control

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BACKGROUND / INTRODUCTION

- Rwanda has recorded significant achievements in the fight against and control of HIV/AIDS with prevalence and incidence at 3% and 0.08% respectively (RPHIA data).
- Rwanda adopted CBS (active case finding and longitudinal follow-up) and Recency testing as strategies to boost the National HIV program in the right direction towards attaining the 95-95-95 targets.
- Since 2018 ICAP has been supporting MOH/RBC in the initiation, piloting, and scale-up of CBS and Recency Testing services.
- Today, all health facilities 578 implement CBS and recency testing in 2 models (POC and Non-POC)

METHODS

CBS consists of two main components:

RESULTS CONT.

- Data analysis, use, and response
 - ✓ CBS and recency testing data is analyzed and visualized through Power BI.
 - \checkmark CBS and recency testing data is shared and presented to healthcare Providers and
 - Health facility leaders through monthly HIV Sub-district coordination meetings.
- Feb 2020-Apr 2024 Cluster Investigation Report: Cluster Response Flow Chart Investigation Date Range: Since 2020, a total # Sites: 55 200 Province/District All of 55 potential # Clusters: 86 Index Cases Month 196 All \sim transmission Initiated ART **Cluster Sites** hotspots were Index Cases All 193 Offered PNS Not Offered PNS Index Sex detected as per the \sim All Rwanda cluster Label Number 182 Accepted PNS Did Not Accept PNS Boyfriend/girlfriend definition (≥2 RITA Child Co-resident
- Active Case Finding: Informing key testing strategies, including the characterization of index contacts to identify transmission networks through Partner Notification services such as:
 - Sexual partners
 - Family testing
 - Social network
- Longitudinal follow: Routine surveillance provides data for better monitoring and understanding of individual patient outcomes such as retention on ART, VLS, Regimen changes, and other clinical outcome.
- Recency testing is integrated into CBS and is offered to newly HIV-diagnosed clients above 15 years with results returned to them.
- Analysis of risk behaviors associated with recent infection, identification of areas of high transmission for program response.

Case-based Surveillance in Rwanda





- Using Recency surveillance data, MOH/RBC conducted:
 - ✓ HIV awareness campaigns conducted in specific areas and for populations at high risk of HIV recent infections
 - Scale-up of PrEP services to health facilities with a higher-than-expected number of recent infections

Figure 1: Rwanda CBS Design

RESULTS

Figure 5: Recent infection distribution by Province

Image 1: HIV awareness campaign in Nyagatare District (Eastern Province)

DISCUSSION / LESSONS LEARNED

- As of today, 192,626 Clients (93% of all PLHIV) have been enrolled into CBS.
- Compared to other testing modalities, Index testing produced a high positivity yield of 4.2% with variations among contact types: social network (10.8%), sexual partners (5.2%), and family testing (1.2%).

- HIV recency evaluation study conducted in 2021 indicated that Recency yield is higher among index clients with a recent infection compared to index with long-term infection.
 25.0%
- The study also highlighted that experience of IPV does
 not increase after return of recency test results to index clients
- CBS data has shown that active case finding a higher positivity yield compared to traditional to traditional.

women in ANC Pregnant women in ANC

HIV tests done • HIV positivity yield

Figure 2: HIV testing and positivity yield different entry points (July 2022-June 2023).

totraditionaltestingstrategiessuchasVCT,ANC, VMMC, etc.

Recommendations:

Figure 6: HIV Positivity Yield and Recency Yield among Sexual Contacts of Index Study

Sexual Contacts Only

 Complete, quality, and timely CBS data require enhanced monitoring and health care providers' capacity building.

Integrate tools and reporting systems for better data interoperability

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