

TRACE Recency Dashboard

TRACE Webinar Series #6

Suzue Saito, PhD

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PEPFAR

U.S. President's Emergency Plan for AIDS Relief



ICAP

Empowering Health
Columbia University
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of Public Health

Previous TRACE Webinars

	Webinar Title	Date
1.	Recency Specimen Panel Preparation	August 2018
2.	Country TRACE Updates and Introduction to the TRACE HQ Support Team	December 2018
3.	Health Information Systems Solutions for TRACE Data Capture and Data Management	February 2019
4.	Recency in COP 2019 for Agency and ECT Leads	February 2019
5.	Introducing the TRACE e-Learning Hub	May 2019
6.	TRACE Recency Dashboard	June 2019

<https://trace-recency.org/>

Outline

- **Rationale**
- **Dashboard Platform**
- **Demonstration of TRACE dashboard**
- **Country Deployment**
- **Conclusion**



Rationale

- **Tracking with Recency Assays to Control the Epidemic**
- **Need to improve surveillance of new HIV infections**
 - Rapid Test for Recent Infection (RTRI) and/or Recent Infection Testing Algorithm (RITA) with viral load confirmation
 - Electronic data capture
- **Dashboard gives health officials at various levels real time actionable information about the epidemic**

Dashboard Platform: Key Features

- **Standardized:** Key recency program metrics programmed
 - Percentage of individuals with recent HIV infection, out of persons newly diagnosed HIV-positive [**HTS_RECENT**]
- **Adaptable:** Country-specific customization
- **Multipurpose:** Recency results, monthly QC of RTIR, cluster detection and response
- **Action-Oriented:** Data visualized to help health officials to focus in on important trends and gaps

Dashboard Platform: Why Power BI?

- **Can integrate with Case-based Surveillance dashboard developed by CDC**
- **Secure, live connection to data sources, on-premises and in the cloud**
- **Can read client- and aggregate-level data**
- **Easily customizable to fit country needs**
- **Integrates with Microsoft products, utilizing commitment for scale & availability**
- **Integrates well with other software packages (e.g., ArcGIS, HTML)**
- **Large online community and excellent support options**
- **Good cost-to-value ratio**

When to Use Dashboard: Dashboard Tour

- Quick look at overall numbers
- Trends in #&% recent over time
- Difference in #&% recent by age and/or sex
- Variability in #&% recent by facility or type of point of testing
- Geographical distribution of #&% recent
- Monthly QC results by kit lot, QC panel lot, specimen type, facility, time
- Difference in #&% recent by key population status
- Compare index testing services metrics by recency status of the index
- **Adaptable to country needs!**

Demo

TRACE Monitoring Dashboard

Tracking with Recency Assays to Control the Epidemic



Strengthening epidemic control through real-time
detection of and response to recent HIV infections

Download the TRACE template and Start Using Your Own Data

Download

Overview

Recency Results

Lab Quality Control

Quality Indicators

Key Populations and
Index Testing

Cluster Detection and
Response

Used fictitious simulated client-level data

Demo Time!

Country Deployment: Rwanda Example

- 1. Download the Power BI file and associated documentation**
- 2. Assemble data shells and codebook of recency data capture form and health facility coordinates**
- 3. Map variables used in country to minimum data variables used in dashboard template**
- 4. Apply country variables to dashboard template for country adaptation**
- 5. Data management**
 - Data management (e.g., deduplication, facility list clean up, create recodes) in the Power BI environment
 - Generate list of data issues to resolve on ongoing basis
- 6. Use and improve!**

Dashboard Resources

No	Document/File Name	Intended User	Status
0	Power BI template file	IT support staff/ Dashboard users	Developed
1	Power BI requirements and installation	IT support staff	Developed
2	Data dictionaries	Dashboard users	Developed
3	Data configuration and upload	Dashboard users	Developed
4	Data management	Dashboard users	Developed
5	Publishing reports in a shared workspace	Dashboard users	Developed
6	Best practices for using the TRACE Templates in Power BI	Dashboard users	In progress
7	HTML static layout	Web developers	In progress
8	ArcGIS online quick start guide	Map developers/users	In progress

Dashboard Resources

TRACE Monitoring Dashboard

Tracking with Recency Assays to Control the Epidemic



Strengthening epidemic control through real-time
detection of and response to recent HIV infections

Download the TRACE template and Start Using Your Own Data

Download

Country Deployment Schedule

Country	Status
Rwanda	Version 1 live!; Expanded modules by September
Eswatini	Version 1 to be live in July
Malawi	Version 1 to be live in July
Namibia	Version 1 to be live in July
Lesotho	Version 1 to be live in August
Ethiopia	TBD
Tanzania	TBD
Zimbabwe	TBD
Kenya	TBD
Zambia	TBD
Uganda	TBD

Conclusions

- **TRACE Recency dashboard is a critical component of improving surveillance of HIV recent infections**
- **Serves as basis for strategic planning by Ministries of Health to achieve epidemic control**
 - Critical trends in the HIV epidemic
 - Performance of the HIV recency test
 - Define a recency cluster detection and response strategy

Acknowledgements



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**RWANDA
BIOMEDICAL
CENTER**

A Healthy People. A Wealthy Nation

UCSF

Institute for
Global Health
Sciences



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Future TRACE Webinars

	Webinar Title	Date
7.	Continuous Quality Improvement: Example from Malawi	Summer 2019
8.	Cluster Detection and Response: Generic Tools	Summer 2019
	Other ideas welcome!	



TITLE

HIV recency testing to accelerate epidemic control: Early results and ethical considerations

CODE

SUSA05

SESSION TYPE

Non-Commercial Satellite

VENUE

Casa Montejo 1

DATE TIME

Sunday 21 July, 10:15 - 12:15

ORGANIZER:

ICAP at Columbia University and the University of California, San Francisco

As countries make strides towards universal diagnosis, treatment and viral suppression for people living with HIV (PLHIV), implementing strategies to identify new HIV cases and rapidly intervening to stop the chain of transmission will be critical. This satellite session will focus on updates from the field on rolling out the rapid test for HIV recent infection (RTRI) as part of the Tracking with Recency Assays to Control the Epidemic (TRACE) project. The session will feature speakers from Ethiopia, Malawi and Rwanda who will share early results on leveraging the new testing technology to identify geographical clusters of new infections and targeting prevention efforts to halt ongoing transmission. The session will consider ethical aspects of RTRI in order to ensure the rights of PLHIV are protected, and representatives from civil society organizations will discuss the important role they play in interpreting and using the recency data.

Thank you!

Questions