

## Monitoring, Evaluation, and Reporting (MER) Guidance (v.2.6): TESTING FOR RECENT HIV-1 INFECTION

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### **Video Outline**

- 1) Section 1: Overview of the prevention technical area and related indicators
- 2) Section 2: Indicator changes in MER 2.6
- 3) Section 3: Review of numerator, denominator, and disaggregates.
  - What is the programmatic justification and intention for the data being collected?
  - How are program managers expected to use this data to make decisions that will improve PEPFAR programming?
  - How does it all come together? How should the data be visualized (e.g., cascades)? How do these indicators relate to other MER indicators?
- 4) Section 4: Overview of guiding narrative questions
- 5) Section 5: Data quality considerations for reporting and analysis
- 6) Section 6: Additional Resources and Acknowledgments



## Section 1: Overview of the technical area and related indicators



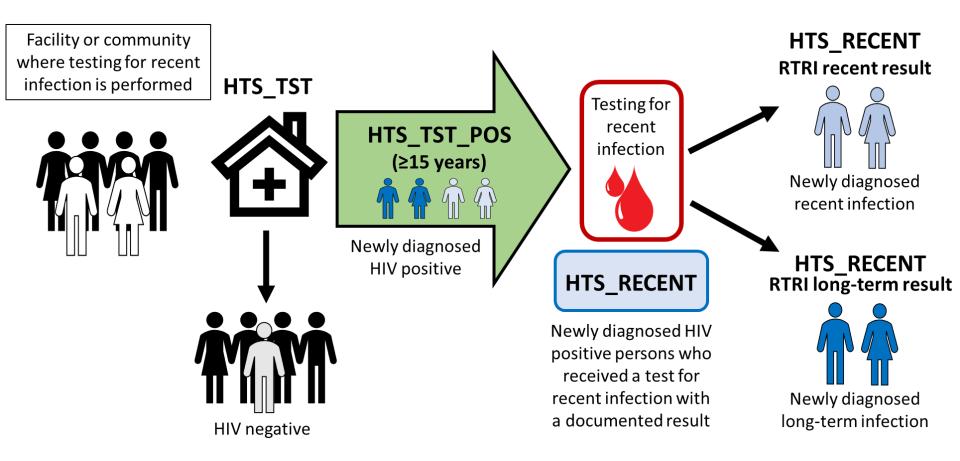
#### **Overview of Technical Area and Indicators**

- Rapid tests for recent infection distinguish a recent HIV-1 infection from a long-term HIV-1 infection.
  - A recent infection is an infection that was acquired within approximately the last one year.
  - A long-term infection is an infection that was acquired approximately more than one year ago.
- The HTS\_RECENT indicator captures the number of newly diagnosed HIV-positive persons who received testing for recent infection during the reporting period.

Program	Indicator	Indicator Name	Reporting	Reporting
Area Group	Code		Frequency	Level
Testing	HTS_RECENT	Number of newly diagnosed HIV-positive persons who received testing for recent infection with a documented result during the reporting period	Quarterly	Facility & Community

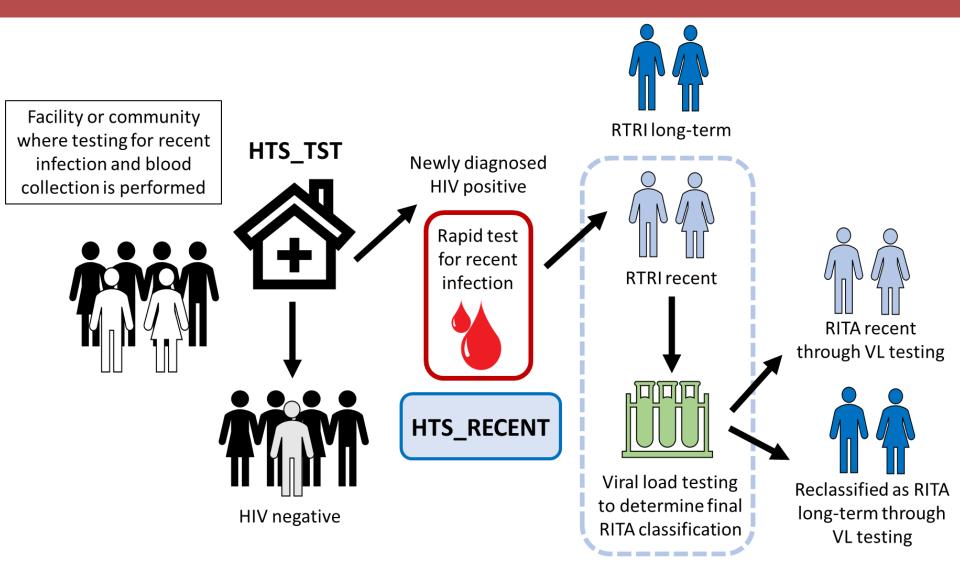


#### **Relationship with HTS\_TST**



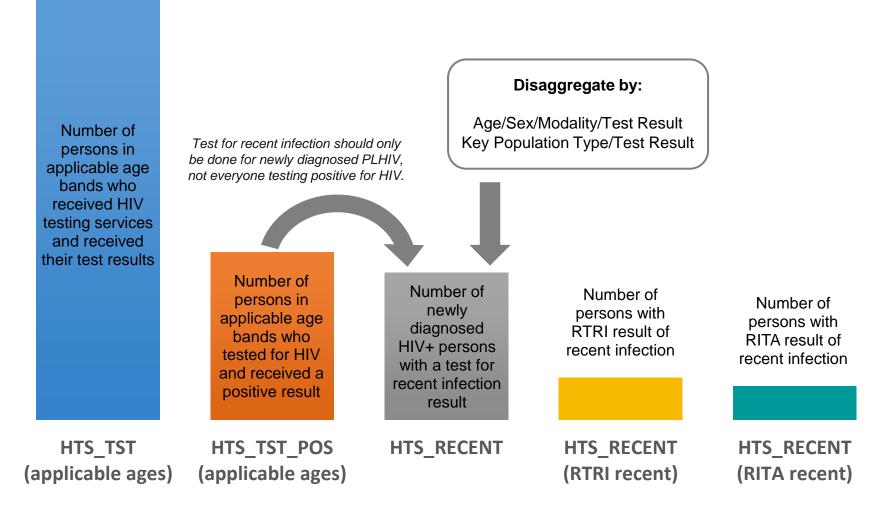


### Relationship with HTS\_TST





#### **Indicator Cascade**





## Section 2: Indicator changes in MER 2.6





#### What's Changed?

Change	Programmatic Rationale for Change
Disaggregate RITA results by testing modality	<ul> <li>Understand proportion of patients who are reclassified as RITA long-term across modalities</li> </ul>
Added Social Network Strategies (SNS) testing as new testing modality	<ul> <li>Align with updates to HTS_TST</li> </ul>
Updated language of confirmatory result to RITA result through VL testing	<ul> <li>Align with standard recency protocol and function of VL testing</li> </ul>



## Section 3: Review of numerator, denominator, and disaggregates





### **HTS\_RECENT** Description

**Numerator:** Number of newly diagnosed HIV-positive persons who received a test for recent infection with a documented result during the reporting period

Disaggregate Groups	Disaggregates					
Modality and RTRI result by age/sex (facility and community)	<ul> <li>RTRI recent or long term</li> <li>Service delivery modality</li> <li>Finer age bands (15-19 F/M to 50+ F/M, Unknown Age F/M)</li> </ul>					
Modality and RITA result by age/sex (facility and community) [required if doing RITA]	<ul> <li>RITA recent or long term through VL testing</li> <li>Service delivery modality</li> <li>Finer age bands (15-19 F/M to 50+ F/M, Unknown Age F/M)</li> </ul>					
RTRI result by KP type	<ul> <li>RTRI recent or long term</li> <li>Key population type (people who inject drugs (PWID), men who have sex with men (MSM), transgender people (TG), female sex workers (FSW), people in prison and other closed settings)</li> </ul>					
RITA result through VL testing by KP type [required if doing RITA and data available]	<ul> <li>RITA recent or long term through VL testing</li> <li>Key population type (people who inject drugs (PWID), men who have sex with men (MSM), transgender people (TG), female sex workers (FSW), people in prison and other closed settings)</li> </ul>					

### Denominator: N/A

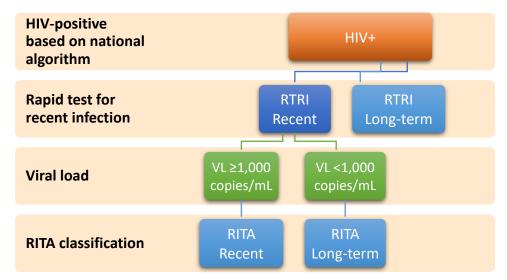
#### **RTRI Results**

- All results from the RTRI should be reported regardless of viral load testing to determine RITA classification.
- A recent result on the RTRI means that the person was likely infected with HIV within the last one year. Viral load testing may be used to reduce misclassification of RTRI recent results.
- **A long-term result** on the RTRI means that the person was likely infected with HIV more than one year ago. This is the final result and does not warrant additional testing.
- The RTRI may produce two other results: invalid and inconclusive. These results should not be reported for this indicator but should be captured in country-specific recent infection surveillance systems for monitoring purposes. In the event of an invalid or inconclusive result, please follow the country's established procedures for dealing with these results (e.g., retesting, reporting, quality control, etc.).



#### **RITA Result through VL Testing**

- VL testing is done to determine recent infection testing algorithm (RITA) classification for RTRI recent results.
- Persons who receive VL testing should be reported as a subset of those reported under RTRI recent.
- A RITA recent result refers to RTRI recent cases that have a viral load result of ≥1,000 copies/mL and have a final classification of RITA recent.
- A RITA long-term result refers to RTRI recent cases that have been reclassified as RITA long-term based on viral load testing with result of <1,000 copies/mL.</li>





#### **Data Entry Example**

#### By modality

<b>RTRI result</b>	Unk	nown	15	-19	20	-24	25	-29	30	-34	35	-39	40	-44	45	-49	50	)+
	F	Μ	F	М	F	М	F	М	F	Μ	F	М	F	М	F	Μ	F	Μ
Recent																		
Long-term																		
RITA result through VL	Unkr	nown	15-	19	20-	24	25-	29	30-	-34	35-	-39	40-	44	45-	49	50	)+
testing	F	Μ	F	М	F	М	F	М	F	Μ	F	Μ	F	М	F	Μ	F	Μ
Recent																		
Long-term																		

#### Not by modality

RTRI result	Key Population Type							
	PWID	MSM	TG	FSW	Prison			
Recent								
Long-term								

RITA result	Key Population Type							
through VL testing	PWID	MSM	ΤG	FSW	Prison			
Recent								
Long-Term								



### How to Count HTS\_RECENT

- Data sources: Case-based surveillance systems, EMRs, registers, logbooks, report forms, lab information systems, and other data collection tools.
- How to calculate annual totals: Sum across quarters
- Key considerations for reporting:
  - Report at all facilities & communities that provide testing for recent infection.
  - If specimens are referred to a different lab or hub facility for testing for recent infection, report under the facility/community where the specimen was collected.
  - RITA results should align with RTRI results and are included only during the same reporting period when the RTRI was conducted.
  - Report recency test results for newly diagnosed PLHIV. RTRI results obtained for other purposes, such as quality control testing or proficiency testing, are not reported under this indicator but should be captured in country-specific systems for monitoring purposes.



### How to Use HTS\_RECENT

#### Surveillance

- Identify geographic areas and/or demographic groups that may benefit from intensified prevention and testing activities.
- Monitor epidemic trends over time.

#### Public health response

- Identify areas and subpopulations with ongoing transmission to quickly target resources to increase case finding, intensify index testing services, and interrupt transmission.
- Changes over time should be monitored to assess program impact.

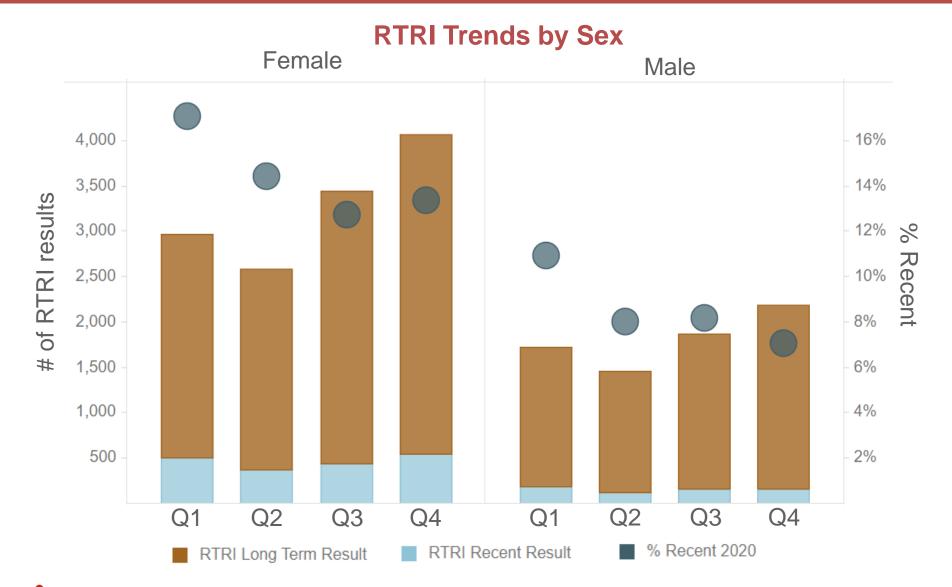
#### Program implementation

- $\circ$  Monitor the rollout of testing for recent infection.
- A crude estimate of testing coverage may be calculated by dividing HTS\_RECENT by HTS\_TST\_POS (applicable age/sex disaggregates).



#### **Data Use Examples**

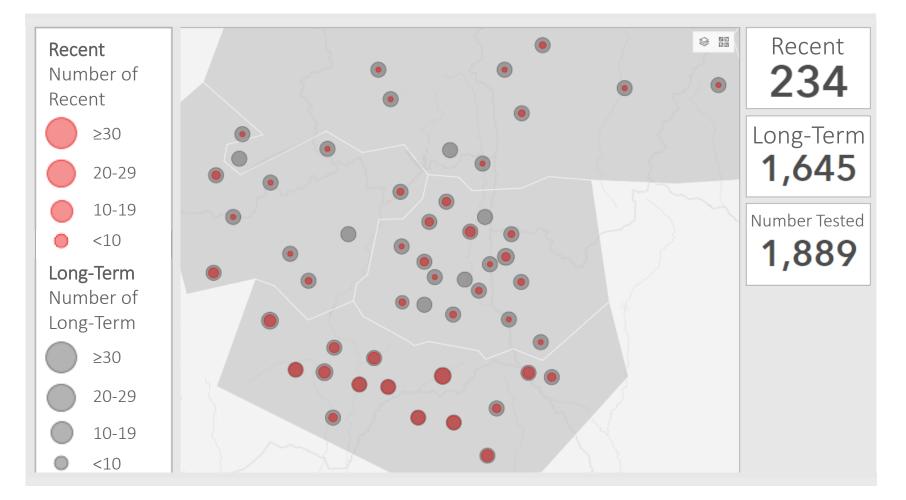
PEPFAR



Source: PEPFAR Panorama: Recency Dossier: RTRI % Recent

#### Data Use Examples

#### **Recent Infection Surveillance Dashboard: RITA Result Map**



PEPFAR Source: Example TRACE dashboard: <u>https://trace-recency.org/example-dashboard/</u>

## Section 4: Overview of guiding narrative questions





### **Guiding Narrative Questions**

- 1. As testing for recent infection is being scaled, **please describe the stage/scope of implementation** (SNUs, sites, populations, etc.).
- 2. If viral load testing is being done to determine RITA classification, please explain if the total number of people who received VL testing does not equal the number reported under RTRI recent. Include the number of RITA results that are missing or unavailable. Note that due to turnaround time, viral load results may be delayed, and RTRI results should be reported regardless of whether viral load results are available.
- 3. If HTS\_RECENT does not equal HTS\_TST\_POS (≥15 years) for the sites/populations doing testing for recent infection, please explain why. Note that newly diagnosed PLHIV infected with HIV-2 who are not co-infected with HIV-1 should not be tested for recent infection.
- 4. Calculate the percent recent by dividing the number of persons with a recent result by the total number of persons tested. Please **explain whether the observed percent recent is expected**, and if not, what investigations are being done.



## Section 5: Data quality considerations for reporting and analysis





#### **Data Quality Considerations**

- HTS\_TST\_POS (≥15 years) ≥ HTS\_RECENT
  - The number of persons in applicable age bands who received HIV testing services and received a positive result should be greater than or equal to the number of persons who tested for recent infection.
- HTS\_RECENT (RTRI results) > HTS\_RECENT (RITA results)
  - The number of persons with a RTRI result should be greater than the number of persons with a RITA result through viral load testing.
  - RITA results should be a subset of RTRI recent results.
- HTS\_RECENT ≥ subtotal of key population disaggregates
  - The number of persons who tested for recent infection should be greater than or equal to the sum of the key population disaggregates.



## Section 6: Additional resources and acknowledgments





#### **Additional Resources & Acknowledgements**

Please check out the comprehensive set of resources for recent infection surveillance on the Tracking with Recency Assays to Control the Epidemic (TRACE) eLearning Hub: trace-recency.org.

Many thanks to the support and contributions of the PEPFAR community of practice for recent infection surveillance, country offices, and partners.





# Thank you!