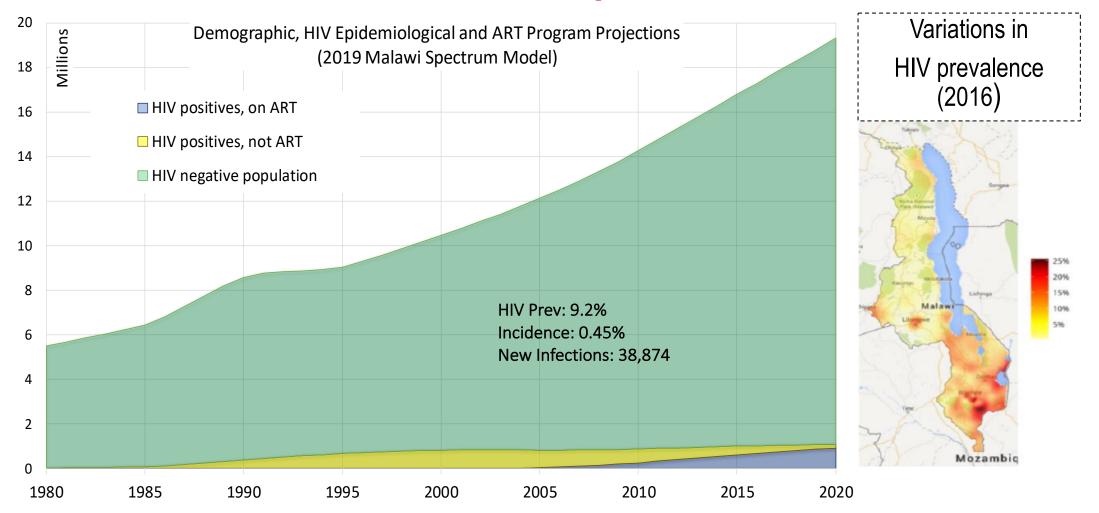


Recent Infection Surveillance among Pregnant Adolescent Girls and Young Women in Malawi

Rose Nyirenda Ministry of Health, Malawi

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Malawi HIV Epidemic



Implementation Timeline

Recency pilot infection among AGYW in 4 districts

Lab evaluation comparing LAg avidity assay to Asante Rapid test for recent infection (RTRI)

Nov 2017



Field evaluation of RTRI (Sedia Asante & Maxim Swift) at HTS compared to

LAg avidity assay at lab

Include recency testing as operational research in HTS guidelines

July 2019

Include as part of HIV testing algorithm in HTS guidelines

2020+











April 2019

Routine recent infection surveillance at 23 sites in Blantyre District



August 2019

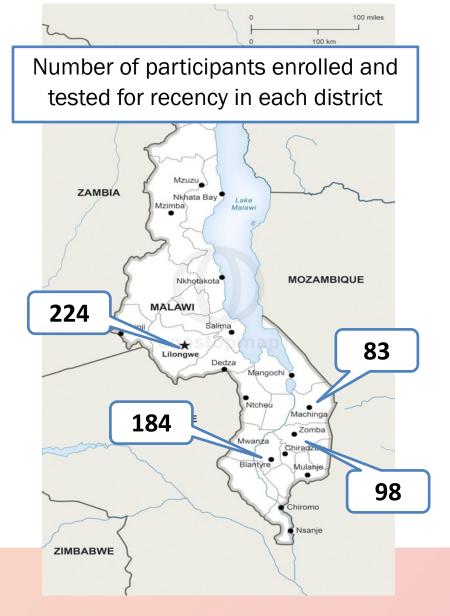
Begin expansion of routine recent infection surveillance to 230 sites in 27 districts



HIV Recency Pilot

Objectives

- To generate cross-sectional estimates of HIV incidence and recent infection among pregnant adolescent girls and young women (AGYW) attending their first ANC visit in public facilities
- To integrate recency testing and return of recency results into routine program service delivery
- To validate rapid test for recent infection (RTRI)
- Population: AGYW attending first ANC visit and newly diagnosed HIV+ in Blantyre, Lilongwe, Machinga, & Zomba districts



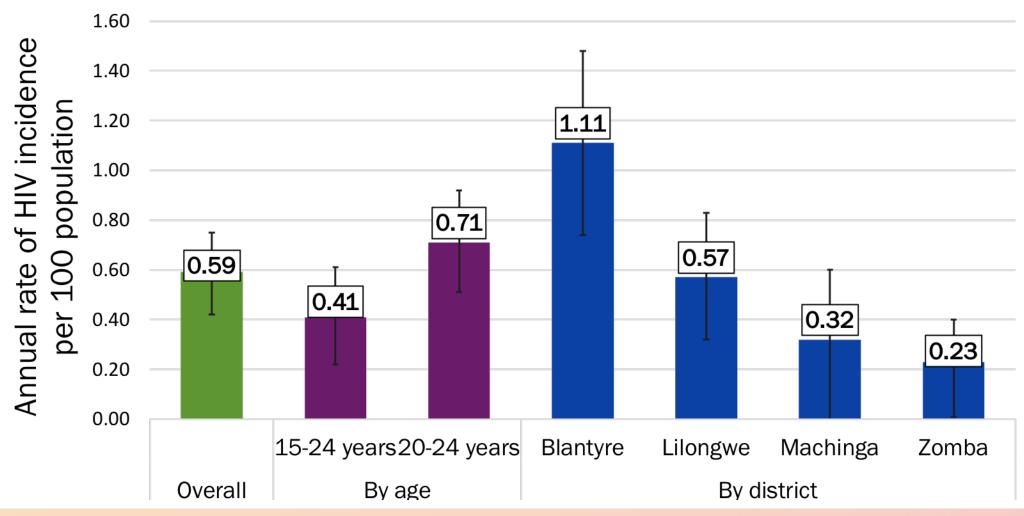


HIV Recency Pilot Results

	Tested	LAg RITA Recent Infections	
District	N	#	%
Blantyre	184	22	12.0
Lilongwe	224	32	14.3
Machinga	83	9	10.8
Zomba	98	5	5.1
Total	589	68	11.7

- About 1 in 10 newly diagnosed pregnant AGYW at ANC were recently infected.
- Proportion of recent infections was lower in Zomba than other districts.
- Results indicated that AGYW were not being tested frequently/early enough.

Estimates of HIV Incidence Among Pregnant AGYW, 2017-2018



Correlation of Asante RTRI with LAg-Avidity

	LAg avidity EIA with VL			
Asante visual at		Long-Term	Recent	
lab with VL	Long-Term	312	12	
	Recent	5	41	

N=370 95% agreement Kappa = 0.82

Strong agreement between Asante RTRI and LAg when performed in lab and viral load testing included.

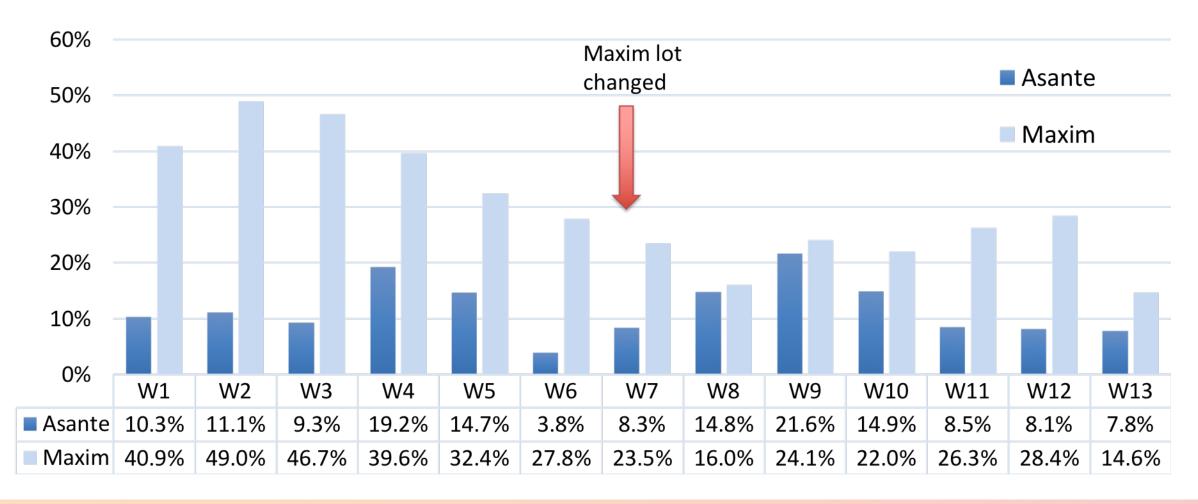
Return of HIV Recency Test Results

- LAg + VL recency results returned to clinics: 99.5%
- Results returned to AGYW: 78.6%
- Results anecdotally well-received
- Low return to scheduled follow up visits observed at some facilities

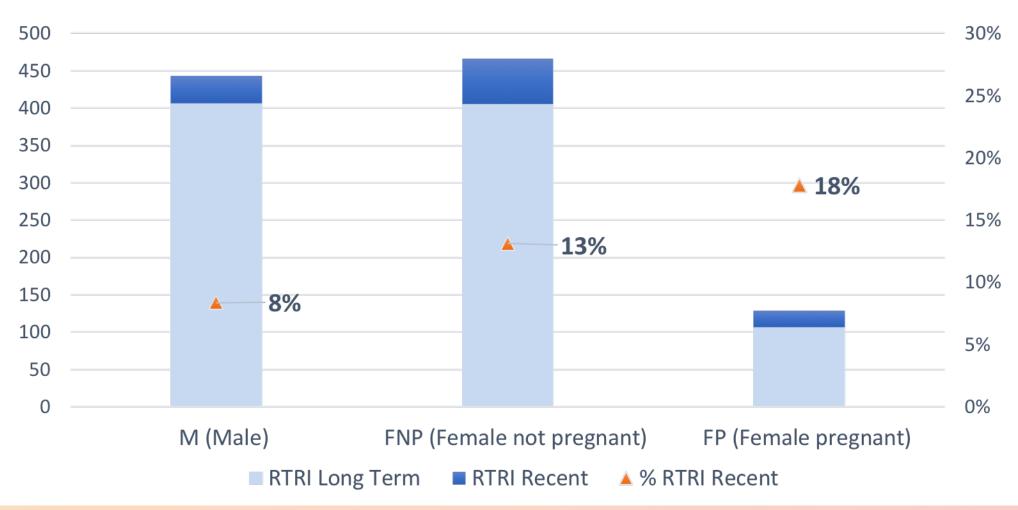


HIV RECENT INFECTION SURVEILLANCE IN ROUTINE HTS

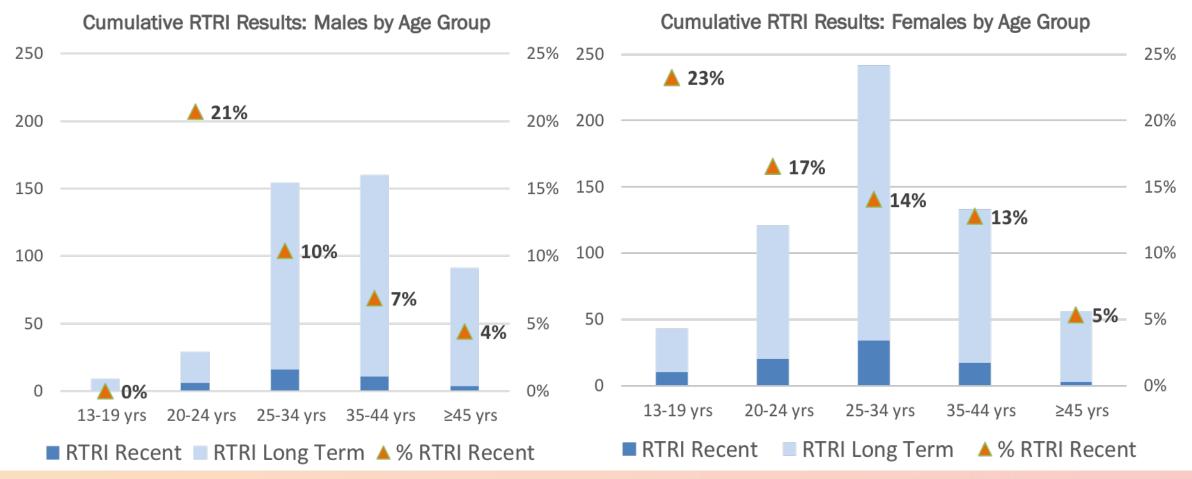
Proportion RTRI Recency Among Newly Diagnosed HIV Cases Enrolled by Test, Blantyre, Apr 4-Jul 5, 2019



RTRI Results by Sex, April 4-July 5, 2019 (n=1038, Asante Sites)



Recency Surveillance Preliminary Data, April 4-July 5, 2019 (n=1038, Asante Sites)



Next Steps

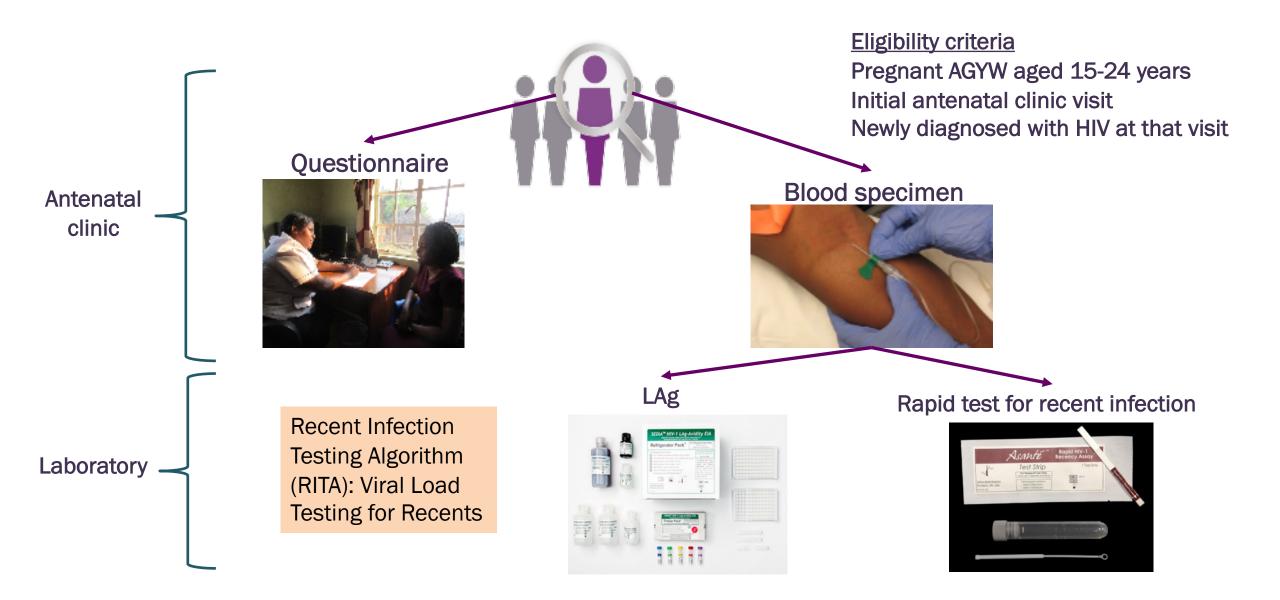


- Complete field evaluation of RTRI at HTS vs. LAg at lab
- Expand in phases to 27 districts
- Use data for public health response
 - Real-time dashboard to visualize results
 - Discuss how to interpret and use results (e.g., prioritize geographic areas or sub-populations for HIV prevention interventions)

Zikomo!

- Malawi Ministry of Health
- Christian Health Association of Malawi
- Office of the Global AIDS Coordinator (OGAC)
- I-TECH, Malawi and Washington
- University of California, San Francisco (UCSF)
- Global AIDS Interfaith Alliance (GAIA), Malawi
- Deforay, Inc
- US Centers for Disease Control and Prevention (CDC), Malawi and Atlanta
- USAID, Malawi
- Antenatal clinic staff in participating districts
- Laboratory staff (Kamuzu Central, Zomba Central, Queen Elizabeth, Machinga District hospital)
- Participating adolescents girls and young women

HIV Recency Pilot Design



HIV Recent Infection Surveillance in Routine HTS

- RTRI performed by HIV Diagnostic Assistants within routine HIV testing (parallel to Test 2)
- DBS collected for viral load confirmation of recent infection
- Client RTRI results not returned; district recency test results to be made available during pre-test counseling
- In planning: dashboard, cluster detection and response strategy

Recency Surveillance Preliminary data – April 4-July 5, 2019 (n=1038, Asante Sites)

Cumulative RTRI Results by HTS Point of Service

