ASLM

ADVANCING THE LABORATORY PROFESSION AND NETWORKS IN AFRICA

AFRICAN SOCIETY FOR LABORATORY MEDICINE

Lab CoP The Laboratory System Community of Practice (LabCoP)



GLOBAL. HEALTH. ACTION. Columbia University Mailman School of Public Health



Supported by the Bill & Melinda Gates foundation

Anafi Mataka Integrated Diagnostics Consortium meeting 12-13 Sept 2019 Washington DC, USA

Outline

LabCoP Framework

<u>What</u> are we doing? <u>Who</u> are we working with?

LabCoP Theory of Action

How are we achieving our goals?

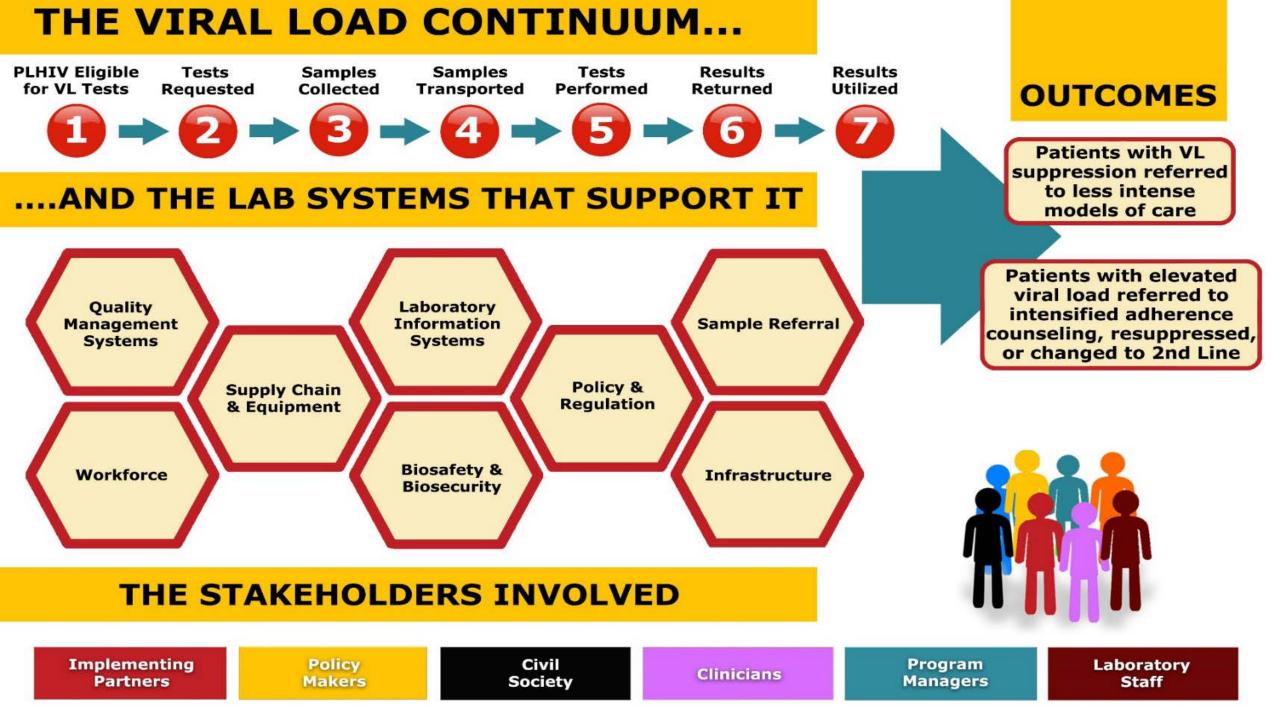
The tools

What are the <u>instruments</u> and <u>resources</u> developed?





The LabCoP Framework



LabCoP Theory of Action

LabCoP THEORY OF ACTION

AIM: TO FACILITATE THE IMPROVEMENT OF LABORATORY SYSTEM FUNCTIONS AND ACCELERATE THE SCALE-UP OF HIV VIRAL LOAD TESTING FOR IMPROVED PATIENT OUTCOMES





LabCop Tools and Resources

1- The viral load testing cascade self assessment scorecard

The HIV viral load testing cascade self-assessment tool

	Lab CoP										
		Viral Load Cascade	Self-Assessment Scoreca	ud							
The Anatio Stren labor challe	oduction African Society for Laboratory Medicine anal laboratory systems supporting the H agthening Community of Practice (LabC ratory system to support VLT scale up in lenges. The results will help determine th co-creation of responses.	IIV viral load test (VLT oP). The rapid assessm n a given country, and (") scale-up in countries part ent is intended; (i) to assess ii) to monitor and demonst	icipating in the Laboratory Syste s strengths and weaknesses of the rate the degrees of improvement	ems ne general nt or continued						
Instr	ructions										
	 Plaster read the contents of the checklist carefully before you complete the reponses; 										
	All questions are referring to the national labor		1								
	You could consult the National HIV/AIDS		nit at the Ministry of Health (Λ	10H) and the National Reference La	aboratory Center;						
	 Please refer to various data sources (routime laboratory & clinical data, reports, key informants, or other data sources) to come up with a reliable information or answer. 										
	General Information										
Date of assessment (dd/mm/yyy): //											
										Name of primary respondent: Organization of primary respondent: Distribution of primary respondent:	
Position of primary respondent: Contact address of primary respondent:											
	Contact address of primary respondent.										
	For each question, please check the side or on supplementary pages as r	needed.		· ·							
S#	VLT Cascade	1	2	3	4	Additional explan					
1	Domains/Questions	Creation for HIV VL	er redu =			whenever applic					
1.1	Is there a national	No standard	SOP/strategy	SOP/Strategy are used,	□ Most of facilities	1					
1.1	strategy/procedure to increase	operating	developed, but not in	and clinicians and clients	continuously monitor &						
	demand of specialized or newly	procedure	use for updating	actively seek such tests	evaluate test demands by						
	introduced lab tests by clinicians &	(SOP)/strategy to	clients, clinicians &		clinicians and clients, and						
	clients at healthcare facilities (HFs)	increase demand	stakeholders		take actions to improve						
					awareness						
1.2	Is there a national awareness	PLHIV unaware	PLHIV informed	Education/ awareness	>75% of health districts						
	creation initiative to PLHIV about	of the access to	about the access of	creation provided, and	management teams review						
	VLT accessibility and its benefit?	VLT and do not	VLT but do not	PLHIV actively seek VLT	data, work with stakeholders,						
		know its benefit	know its benefit	1	and act to improve demand	1					



standard tool to asses the <u>national</u> VL testing program, designed as a scorecard with color coded results

6 domains of the testing cascade and systems

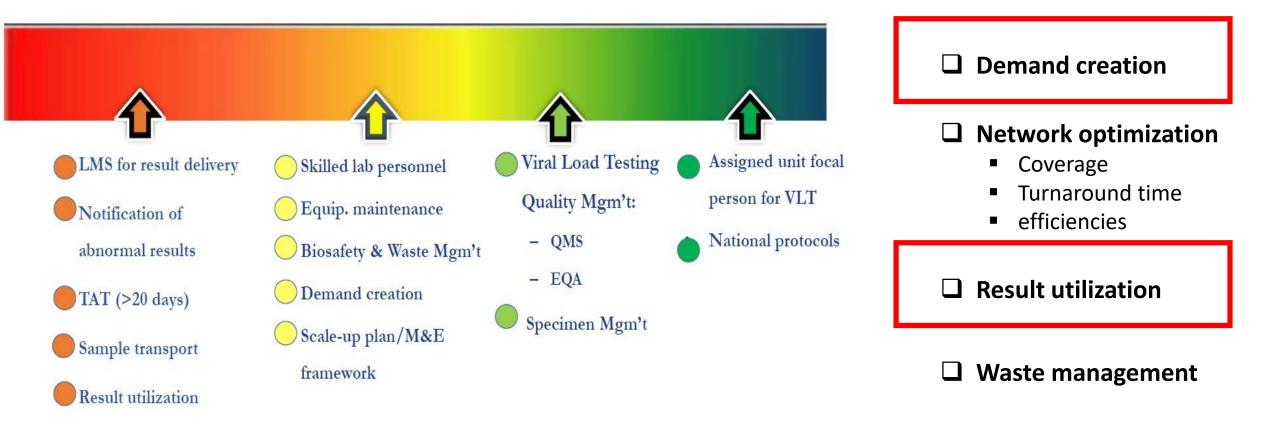
- demand creation
- Specimen collection and processing
- Sample transport
- Laboratory testing
- Results utilization
- Leadership & management

One section to quantify the national VL testing cascade.





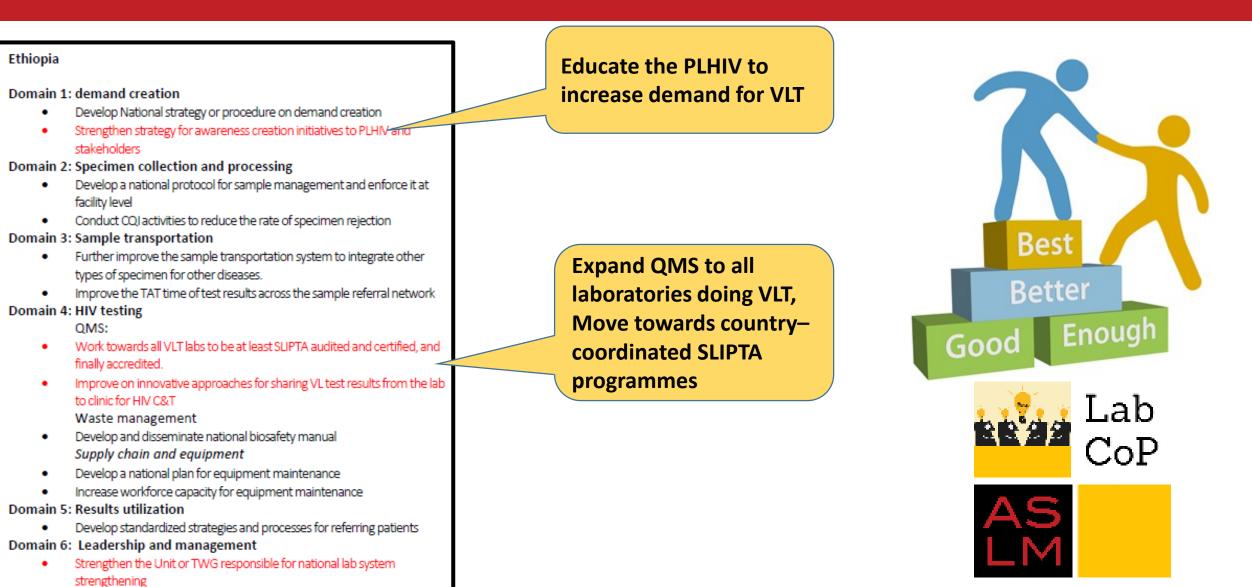
Results at baseline among the 11 LabCoP countries: common areas of weaknesses



Prioritization and focus for better planning

Country-specific weaknesses: example of Ethiopia

TWG to develop an M & E plan or framework for the scale up of VL



LabCoP tools and Resources

2- The strategic decision tool

The strategic decision tool

 Identify, summarize and categorize all useful best practices into strategic interventions across the prioritized areas for improvement, through

 \rightarrow Country to country exchanges

→ Input from Subject matter expert and stakeholders

Use the strategic decision tool to propose intervention in country action plan



Strategic Decision Table for Scaling-Up Viral Load Services

S#	Strategic areas	Strategic options*	Priority action items for improvement**			
Ι	Demand C	Creation				
1	Leadership and Coordination	 Review demand and service availability Mobilize district health officers (DHO) and IP support 	 Develop plan for demand creation based on availability and capacity to balance with the demand VL dashboard to track coverage alongside denominator of # of ART clients per facility Share VL coverage targets for national, regional, district and facility teams 			
		 Understand the community perceptions Advocacy structures at national, district and community level Specific funding for demand creation 	 Review survey results or conduct mini-survey to understand community perception Use of existing organizational structures from national to community level for demand creation. Community based structures of PLHIV for demand creation. Resource mobilization for demand creation targeting frontline health care teams and civil society Strengthen the lab clinician interface for effective planning and results utilization Giving priority to pediatrics and adolescent communities 			
2	Capacity of healthcare providers	 Training Review meeting Viral load campaigns Site visits 	 Training of trainers (national, regional and facility trainings) Monthly national level data review meetings for IPs/districts. District/hub level review meetings to review coverage, suppression and rejection Districts set up quarterly testing targets per facility with ART numbers as denominators. 			





From strategic decision tool to action plans to funding

Develop evidenced-based action plans to address prioritized areas

11 action plans addressing demand creation and results utilization

Inkage the plans to existing funding and implementation opportunities and mechanisms:

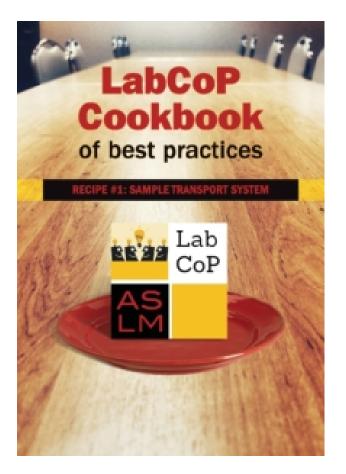
- PEPFAR country operational plans (COP)
- Global Fund planning or reprogramming cycles
- National budgets



OGAC and CDC Headquarter and country team have supported the inclusion of demand creation and result utilization in COP19



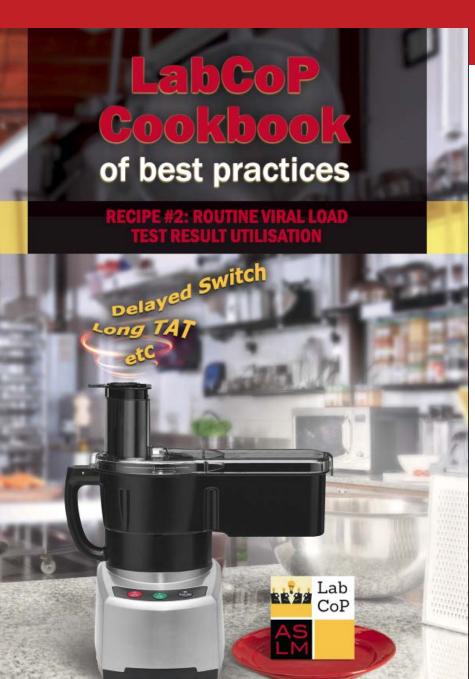




LabCoP tools and Resources

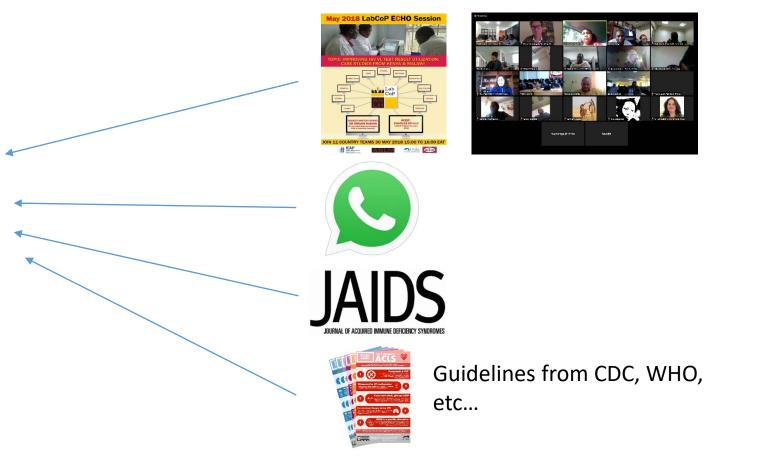
3- The LabCoP cookbook of recipes

Example of the Result utilization Recipe



Knowledge co-creation and dissemination within the LabCoP

Knowledge, solutions, tips and various good ideas are summarized into practical guidelines at the attention of multidisciplinary team (not only laboratory)



CRITICAL RESULT NOTIFICATION

Critical laboratory test results, in this case (UVL), must be immediately flagged and communicated to clinicians and multidisciplinary teams for immediate action. These systems should be optimised at the site level to match the local context and resources. Several simple approaches have been found to be highly effective, including:

- Use of a separate UVL register
- Mobile texting
- Reports designed to highlight UVL (e.g., color coding, unique tagging, symbols)
- · Using stickers on charts
- Labelling results with 'Urgent' or 'ASAP', or other methods to expedite linkage of results with action.
- Routine audits of time between receipt of critical results to time clinical action is taken.

STANDARD OPERATING PROTOCOL

Development of a guide or standard operating procedure (SOP) for reporting VL and/or other laboratory results, and monitoring its implementation facilitates the sustainable delivery of results. Engagement of clinicians, counsellors, laboratorians, and recipients of care in the development of SOPs helps to ensure they are practical and feasible at the site level.





RESULT REVIEW AND CLINICAL ACTION

TIMELY RESULT REVIEW AND INTERPRETATION

Clinicians should receive, review, and interpret test results based on national/local patient management guidelines. Key interventions to support timely and accurate use of VL test results include:

- · Critical result notification systems and SOPs ensure clinicians and multidisciplinary teams see results and prioritise them appropriately.
- Training, ongoing supportive supervision and development of job aides support appropriate action whether VL is unsuppressed or suppressed.
- · Routine review of patient management by site-level multidisciplinary teams should include assessment of VL-guided services.
- Routine review of program level data at the health facility and program levels (see Section 4, Monitoring and Evaluation below).

CONNECTION OF RESULTS, CLINICIANS, AND PATIENTS

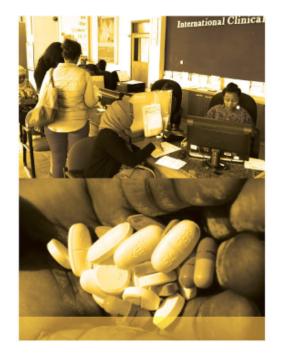
Once results have been reviewed by lab personnel, prompt action to connect results, clinicians, and patients is required. In some settings, patients receive timely follow-up appointments after VL specimen collection, i.e., they are scheduled for VL results review within 1-2 weeks. In this context, a systematic review is needed to make sure those appointments occurred, and the loop has been closed. In other settings, a VL result requires scheduling an urgent appointment with patients. In either case, understanding the current process is the first step towards improving it. At many facilities, this is complicated, as processes may be implicit or misunderstood. It may not be clear who is responsible for each step. Additionally, what is actually happening may be very different forow what is supposed to happen. Experience shows that:

- Develop a process map with site staff and patients to enable program managers to identify gaps and opportunities for improvement.
- Review data on an ongoing basis, whether in the context of routine M&E or quality improvement activities, to identify what proportion of patients receive results within the appropriate timeframe.

APPROPRIATE AND TIMELY CLINICAL SERVICES

The World Health Organization and national guidelines generally recommend that patients with SVL (and other criteria for 'stability') be referred to DSD services, although these vary substantially between and within countries. Guidelines also recommend that patients with UVL receive 3 EAC sessions within approximately 3 months, followed by a repeat VL test and either referral for DSD (if suppressed) or switch to a new ART regimen (if persistent UVL is documented).

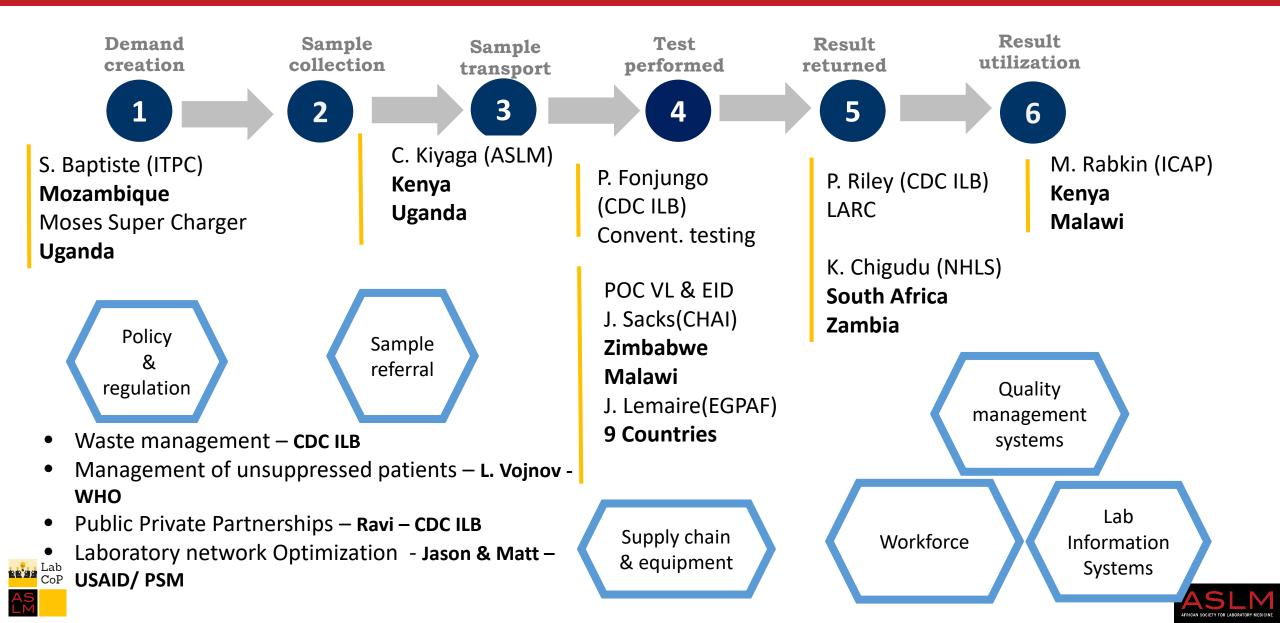
- UVL management should be guided by step-by-step SOPs, including systems and tools to support EAC.
- Sites and programs can adapt existing UVL toolkits, such as the one developed by ICAP at Columbia University (see Resources on next page).



CASE MANAGERS

Assigning case managers to UVL clients helps to provide improved care. Case managers make periodic contact with patients to assess and monitor changing needs and provide care as needed.

Knowledge co-creation and dissemination within the LabCoP



LabCoP can also assist partners in disseminating their own resources

- The waste management training package
- The Laboratory African Regional Collaborative (LARC)
- The CDC viral load and EID testing scorecard

This will be part of the phase 2 of the LabCoP project

• Face to face meeting Oct 22-24, Addis, Ababa

- Assessment of country action plans and progress
- Enhanced engagement of civil society and recipients of care to support the demand and correct utilization of test results
- New lab system strengthening topics beyond VLT
 - diagnostic testing
 - evidence-based optimization of lab networks
- Expansion to Francophone regions??

Thank You



Become and ASLM member!