

TANZANIA LARC

Result reporting

16th May, 2017

PIGGS PEAK HOTEL

SWAZILAND

Tanzania LARC Team



Country Team

Laboratory Professional

Core

- Charles Massambu,
- Mike Mwasekaga
- Anyelwisye Kabuye,
- Dickson Majige,
- Angelika Luguru ,
- Victor and
- Erenest Lokoya

From the site

Magreth Msanga

Magreth Lyimo

Nursing Professionals

Core

- Gustav Moyo ,
- Nassania Shango ,
- Ligmas Samwel
- Paul Magesa
- Lena Mfalila,

From the site

- **Sweet Ndurumaki**
- **Mwanamsham Jangama**

Mkuranga District Hospital



Project Summary

What are we trying to accomplish?	How will we know if a change is an improvement?	What change will we make that will result in an improvement?
<p>Overarching Goal</p> <p>Impacting HIV+ patients management by assuring patients with high Viral Load (VL) receive timely enhanced adherence counseling</p>	<p>Metric: AIM Statement</p> <p>Increase percentage of high VL patients with a documented return visit from 35% to 70% by 31st Jan 2017 and to 100% by 30th June 2017.</p> <p>Metric: Number of high VL patients with documented return visit within 14 days after being called/ All patients with high VL results per month</p>	<p>Intervention</p> <ul style="list-style-type: none"> ▪ Flagging System to highlight patient with high viral load ▪ Call/notify patients with high VL to return for EAC within 2 weeks ▪ Document EAC conducted

Elevator Speech

This project is about

Impacting HIV + patient management by assuring patients with High Viral Load receive timely Enhanced Adherence Counseling (EAC)

As a result of these efforts,

Patients will achieve HIV viral suppression

It's important because we are concerned about:

- ❖ In country HIV epidemic control
- ❖ Achieving 90/90/90 HIV&AIDS goals by 2020

Success will be measured by showing improvement in:

Percentage of HIV patients with high Viral Load receiving timely EAC (within 14 days of receiving call)

What we need from you –

Continued Technical support and commitment



LARC project Stakeholder

- MoHCDGEC
- District Health administrators
- Hospital Management
- CTC and Laboratory health workers
- We shared information about the LARC project with our stakeholders by actively engaging them in meetings.
- we have an excellent team spirit and ownership at the facility level because all the health care workers are actively involved in the Project Implementation.

Process Mapping



Process Step	What Happens?	Who is responsible?	Duration	Forms/logs	Opportunity for Improvement	Remarks/status
1. Check in at CTC Clinic	CTC 1 Card accepted; Triage; File pulled	Nurse	Minutes	CTC 1 Card; CTC 2 Card	Updating CTC 2 – no place for Viral Load (VL) tracking	CTC 2 updated to accommodate the Viral Load (VL) tracking
2. Identify eligible client for Viral Load (VL) test	Review the file; Identify clients eligible for VL test according to country protocol	Nurse	Minutes	Patient file with CTC 2 Card; National Guidelines	flagging on patient file or highlighting on CTC VL Register to identify HVL pts or those due for VL testing	Patient files are being flagged Register to identify HVL pts or those due for VL testing in place
3. Educate & Obtain Consent for VL Test – Group or Individual	Explain VL testing/significance; Obtain verbal consent for VL testing	Nurse	Minutes		Let patients know that if VL results are abnormal, they will be called and should be prepared to return early for next appointment; Standardized VL education material	Information about being called is being provided before sample collection. Standardized education material reviewed.
4. Obtain Anthropometrical Measurements - Check-In	Obtain BMI, BP, breathing,	Nurse	Minutes	CTC 2 Card	No Streamlined Check-in process	Streamlined process for check in is in place

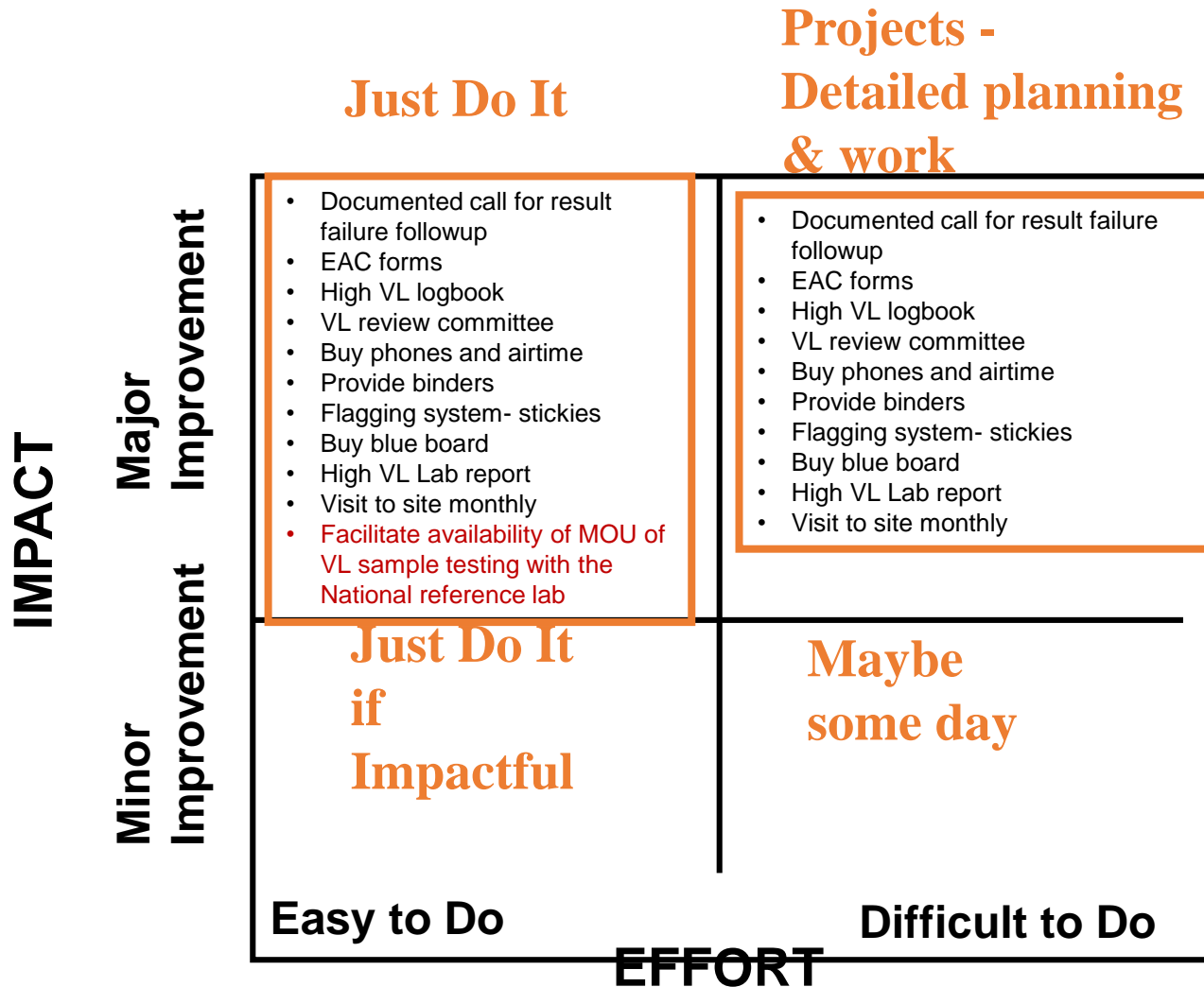
Process Step	What Happens?	Who is responsible?	Duration	Forms/logs	Opportunity for Improvement
5. Examine Patient	TB screen (standardized tool), OI Screen; Document on CTC 2 card	Clinician	Minutes	Patient File	Updated CTC 2 Card; flagging of patients who need an initial VL test
6. Order Viral Load (VL)	Complete VL request form	Clinician	Minutes	HVL Laboratory Request Form	Provided VL laboratory requisition forms
7. Document in CTC VL Register	Record in CTC Registration Book & VL Log Book; Assign Lab ID or look up if done before; Validate completeness of VL requisition form; Set up follow-up appointment	Nurse	Minutes	HVL Laboratory Request Form CTC VL Register Appointment book	Incompletely-filled VL lab request forms; Multiple Logs; No way to follow-up if patient returned for f/u appointment; Challenges in assigning "Lab ID" - currently assigning serial numbers as patients come
8. Escort to lab	Escort patient	Peer Educator	Minutes		
9. Register patient in Lab	Check Request Form for completeness; Register in Lab register; Check if other tests requested	Lab technician	Minutes	HVL Laboratory Request Form HIV Viral Load Facility Register (Lab Register)	

Process Step	What Happens?	Who is responsible?	Duration	Forms/logs	Opportunity for Improvement
10. Draw patient's blood (phlebotomy)	Patient education; Sample collection	Phlebotomist	Minutes	HVL Laboratory Request Form	
11. Process Sample	Centrifuge; Store Plasma at 2-8 degrees if necessary	Lab Technologist	Minutes – 3 days		
12. Prepare sample for Transport	Package sample; Complete manifest; Transfer to Peer Educator	Lab Technologist	Minutes	HVL Sample Manifest	Future Point of care Testing
13. Transport Sample	Load bus fare; Check manifest, verify & sign; Receive samples in cooler box; Deliver to National Reference Lab (NRL)	Peer Educator	4-8 hours	HVL Sample Manifest	Biosafety training for peer educator; Concerns re: Biosafety in transport (public bus system); Bus fare not loaded on phone;
14. Deliver samples;	Samples delivered to testing lab; Manifest reviewed & signed; Sample handoff; Specimen rejected if does not meet criteria	Peer Educator; NRL VL lab technician	Minutes	HVL Sample Manifest; NRL Sample Receiving Log	

Process Step	What Happens?	Who is responsible?	Duration	Forms/logs	Opportunity for Improvement
15. Test Sample	Sample received, stored, tested & results reported	NRL VL Medical Laboratory Scientist	2-4 weeks	Electronic Report → Printed	Result delivery not electronic (SMS or wireless printer for NK site); No monthly high VL report to site
16. Collect Results at NRL/Transport to NK Clinic Lab	Results dispatched to peer educator; Dispatch book signed	NRL VL Medical Laboratory Scientist; Peer Educator	0.5 day	Result Dispatch Book; Printed laboratory reports	Improve lab result report – Standardize reporting (e.g., TND, Not detected, <20), Add clinical decision support to report & Flag high VL
17. Receive / Register Results / Dispatch to CTC	Receive results; Transcribe into Lab Register; Transcribe to paper VL Request Form; Document time/date delivery to CTC	Lab Technician	1- 2 days	Patient's HVL Request Form; HIV Viral Load Facility Register (Lab Register); HIV Viral Load Dispatch Log	highlighting of high VL results;
18. Enter results into Data Base / Sort into high & low values	Hand off form signed; Results entered in data base &	Data Clerk	1-2 days	Hand-off form; VL Request Form with transcribed result	highlighting of high VL results

Process Step	What Happens?	Who is responsible?	Duration	Forms/logs	Opportunity for Improvement
19. Place results in patient file	Recorded in CTC VL register & High VL Log Book; Place report in patient file; Transcribe results to CTC 2 Card	Nurse	1-3 days	CTC VL Register; High VL Log Book (Register)	No flagging files or highlighting CTC VL log to identify HVL pts or those due for VL testing; No patient notification of HVL results (e.g., No Phone); No communication log - no place to record if called; No method to track follow-up; i.e. did patient return for scheduled appt. (Suggest appointment book); No national high VL register
20. Initiate EAC at next visit	EAC initiated;	Nurse	1 month	High Viral Load Counseling Form (now in CTC Clinic)	No EAC Forms; No place to track when next VL is due if patient is compliant – suggest EAC form redesigned to include “decision point”;
21. EAC #2/#3; Continued ART dispensing	Additional EACs; Pharmacist dispensing additional monthly ART	Nurse / Pharmacist	2 months		No pill count recorded - Pharmacist not engaged in pill count;
22. Check 2 nd viral load if patient compliant		Nurse	After 3 months		Inconsistent implementation of country algorithm – I.e., ordering of 2 nd VL, No pill count recorded; No place to record when follow-up VL due if pt. compliant;

IMPACT / EFFORT GRID A Tool for Prioritizing Opportunities



JUST DO IT - HIGH IMPACT & EASY TO DO
Documented call for result failure followup
Availability of forms for EAC
To have logbook for high VL result and EAC
Formulating VL review committee
Buy phones and airtime
Provide binders
Flagging system stickies
Buy blue board
High VL report visit to site monthly

Facilitate availability of MOU of VL sample testing with the National reference lab

PROJECT
Monitoring time to pick up results from testing lab after calling the facility

Reduction of TAT

Monitor actual TAT

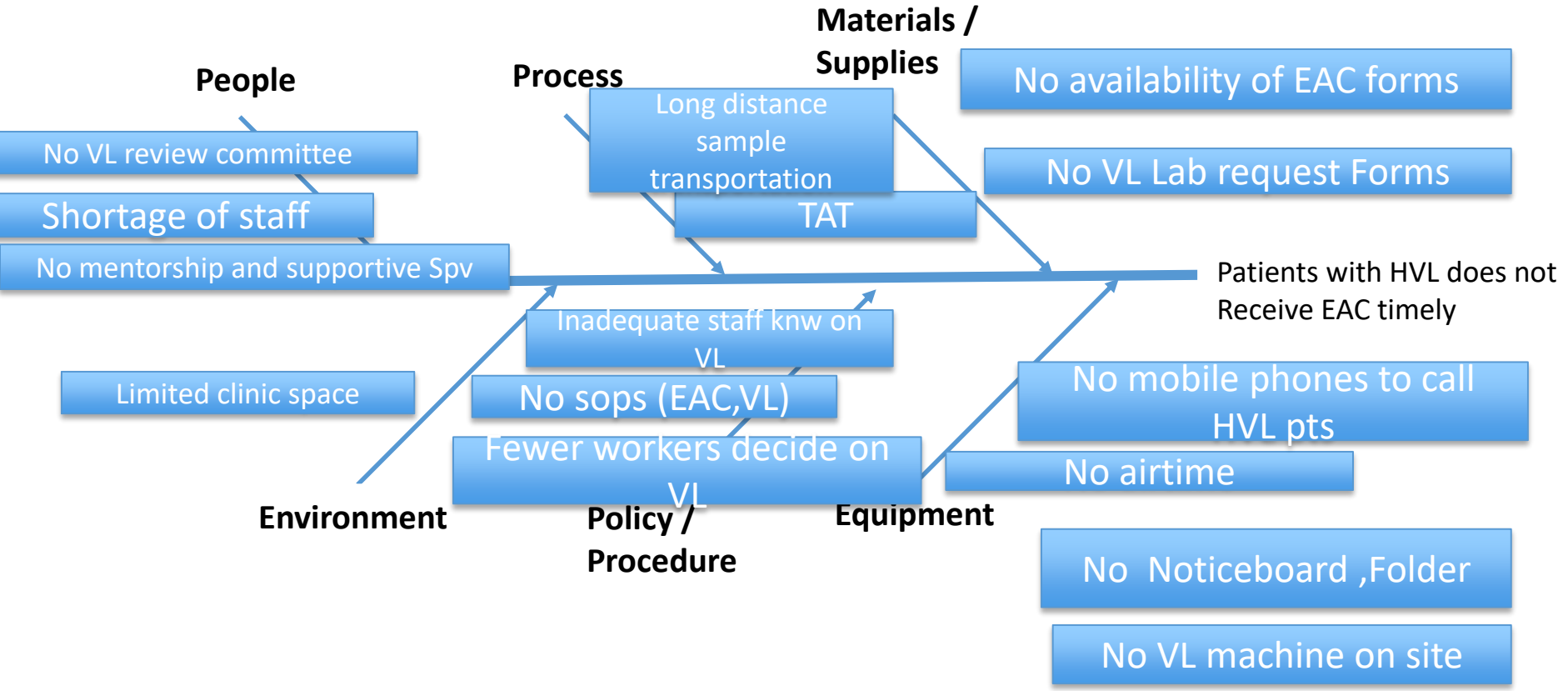
Providing bus fee for sample transportation by peer group

Having standard result reporting
Create SOP

Mentorship & training

Availability of policy

MAYBE SOME DAYS
Provide VL machine
Provide vehicle for sample transportation
Staff employment





- **Gap Identified (Problem):**

High viral load results are not acted upon with appropriate timely follow up action

- **Aim Statement:**

Increase percentage of high VL patients with a documented return visit from 35% to 70% by 31st Jan 2017 and to 100% by 30th June 2017.

Define

Measure

Analyze

Improve

Control

Baseline Data

- **171 VL patient files reviewed** (300 VL test specimens collected at Mkuranga from July to September 2016; however 129 specimens were requested to be recollected due to internal quality control failure)
- **66 patients had HVL results** (viral copies greater than 1000)
- **23/66 (35%) patients had documented return EAC visits**



Action Plan

Action Item	By whom?	By When?	Status
Photo copying 1000 EAC and 2000 VL forms , Tagging files with High Viral Load	Magesa	October	done
Purchase mobile phones and Smart phones	Magesa	October	done
Data collection	Victor	February	done
Training of HW on Viral Load	Ligmas	March	done
Formulation of VL technical review committee	Anyelwisye	March	done
Monitoring and Evaluation	Core LARC team	Every two Weeks	On going
Site Visiting	Core LARC team	At least monthly	On going
Active communication	Ligmas	Weekly	

- **Data Collection Plan / Tool –**

- Data was evaluated and entered into a run chart monthly (Data closing period for each month will be the 15th of the following month)
- Review / Analysis of results monthly (Victor) to guide implementation

UNIQUE CTC NUMBER	Age	SEX	Viral Load Results (cp/ml)	Date of Viral Load Testing	Date of Viral Load Results at CTC	Phone Call Made /Appointment Date	Follow-up Visit for EAC

The following interventions were done to come up with success .LARC project supplied clinic & Lab with blue board, stationaries, cellphone, airtime and supportive supervision and mentorship on site.

Define

Measure

Analyze

Improve

Control

• Just Do Its

NATIONAL HIV CARE AND TREATMENT

TB REGISTRATION No _____
HUWANYU/HBC NUMBER _____

VIRAL LOAD TESTING

TEST NUMBER _____

SAMPLE DATE / / _____

VL RESULTS (Copies/mL) _____

WHY ELIGIBLE: WHO STAGE (1-4) CD4 COUNT%

BREAST FEEDING PREGNANCY

AGE CD4 COUNT% FUNCTIONAL STATUS (See Codes 4) BODY WEIGHT

(19) SERUM CREATININE (µmol/L)	(20) ANY OTHER DIAGNOSTIC (LAB, CXR or OTHER)	(21) NUTRITIONAL STATUS (code 13)	(22) NUTRITIONAL SUPPLEMENT (code 14)	(23) REFERRED TO (code 15 enter all that apply)	(24) NEXT VISIT DATE	(25) FOLLOW UP STATUS (code 18)	(26) NAME OF CLINICIAN
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UIN	4st	EAC 2nd	Outcome
1620100 - 001442	26,250	17.08.2016	
520100 - 001770	22,883	17.08.2016	
320100 - 002062	104,820	17.08.2016	
320100 - 002199	226,650	17.08.2016	
0401 - 001191	353,148	12.07.2016	
320100 - 002173	19,430	20.07.2016	
320100 - 002497	14,672	19.09.2016	
320100 - 002020	9,691		
030101 - 002476	39,623		
320100 - 002175	106,733	22/07/16	
010100 - 002102	261,766	27/8/16	
010100 - 002324	284,801	17/8/16	
320100 - 002974	104,880		
320100 - 002335	143,516		
320100 - 002121	55,612	13.07.16	
320100 - 002218	181,207	03.08.16	
320100 - 002070	53,962		
320100 - 002076	379,221		
320100 - 002529	473		
320100 - 002520	473		
Hamsa Juma Ayik	0820100 - 010014	2.01.2017	
	0172 - 023417	8.4.15	

BAC

1st session 17/08/16

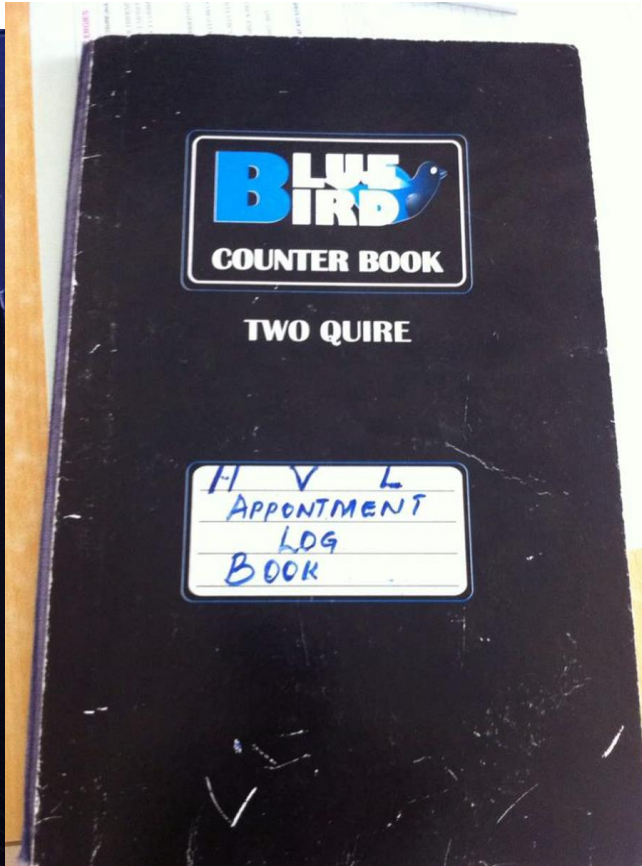
2nd session 15/09/16

3rd session 13/10/16

Extra sess - 08/02/17



EAC
 1st session 08/03/17
 2nd session 10/04/17
 3rd session 11/5/17



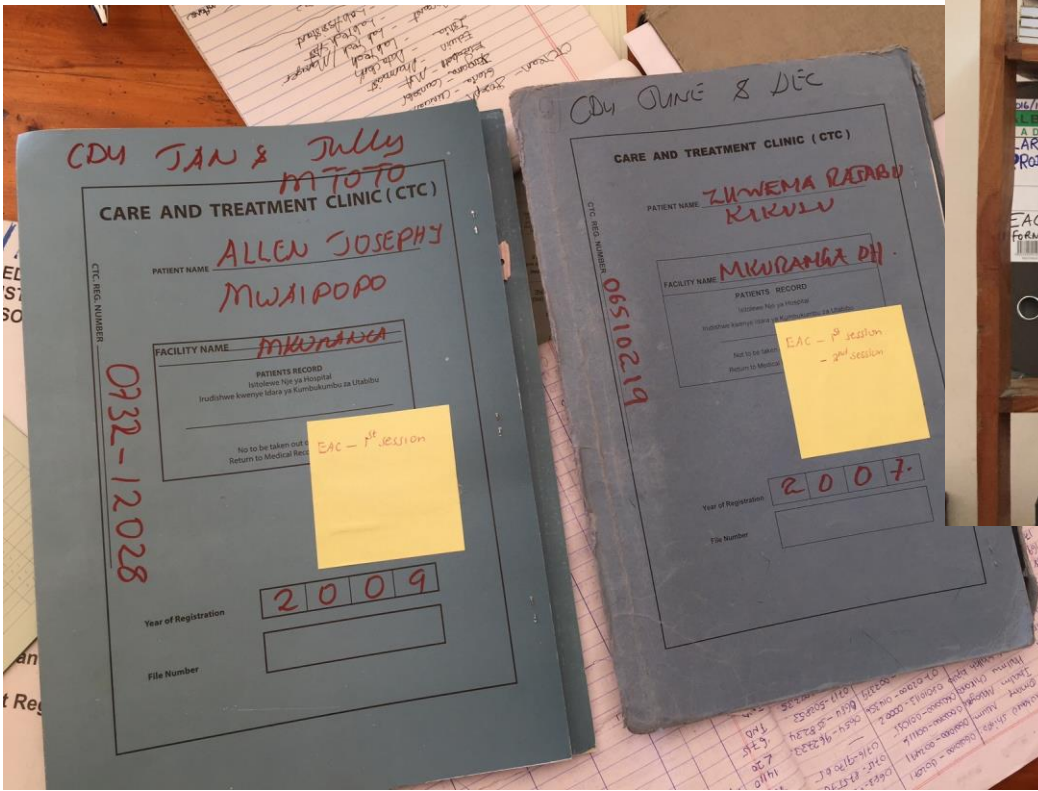
2017/2018

NO.	Name	Phone NO	Book Date	App. Date
1024	Rafaka Ally Akanda	0788-778234	21.02.2017	22.02.17
1025	Alice Mwaigwe Agwira			22.02.17
1026	Sarah Ndlovu Agwira	0316-282875	21.02.2017	22.02.17
1027	Sarah Mwaigwe Agwira	0781-747080		
1028	Alice Rajaka Mwaigwe			22.02.17
1029	Alice Chigumba Mwaigwe	0977-591104		22.02.17
1030	Alice Ally Ichamu	0787-579002	21.02.2017	24.02.17
1031	Rebecca Rajaka Mwaigwe	0672-023107		24.02.17
1032	Honima Ndlovu Mwaigwe	0652-586002	21.02.2017	24.02.17
1033	Oliver Chigumba Chigumba	0989-045000	21.02.2017	24.02.17
1034	Honima Mwaigwe Mwaigwe	0656-313694	21.02.2017	24.02.17
1035	Patricia Arden Mwaigwe	0651-115433	21.02.2017	
1036	Ally Arden Mwaigwe	0782-650407	21.02.2017	01-03-17
1037	Zemzem Ndlovu Mwaigwe			
1038	Patricia Ndlovu Mwaigwe	0658-202877	21.02.2017	01-03-17
1039	Oliver Ndlovu Mwaigwe	0628-424100	21.02.2017	02-03-17
1040	Oliver Ndlovu Mwaigwe	0789-106038	21.02.2017	03-03-17
1041	Alice Ally Mwaigwe	0716-585084	21.02.2017	
1042	Thomas Ndlovu Mwaigwe	0719-585084	21.02.2017	21-03-17
1043	Alice Ally Mwaigwe	0665000-002071		21-03-17
1044	Sinobho Mwaigwe Mwaigwe	0682-321617	21.02.2017	21-03-17
1045	Patricia Ndlovu Mwaigwe	0689-200983	21.02.2017	21-03-17
1046	Pius Alphance Simbe	0689-03149	21.02.2017	02-03-17
1047	Theresa Anthony Mwaigwe	0689-03149	21.02.2017	02-03-17
1048	Honima Ndlovu Mwaigwe	0656-401880		

Results to Come

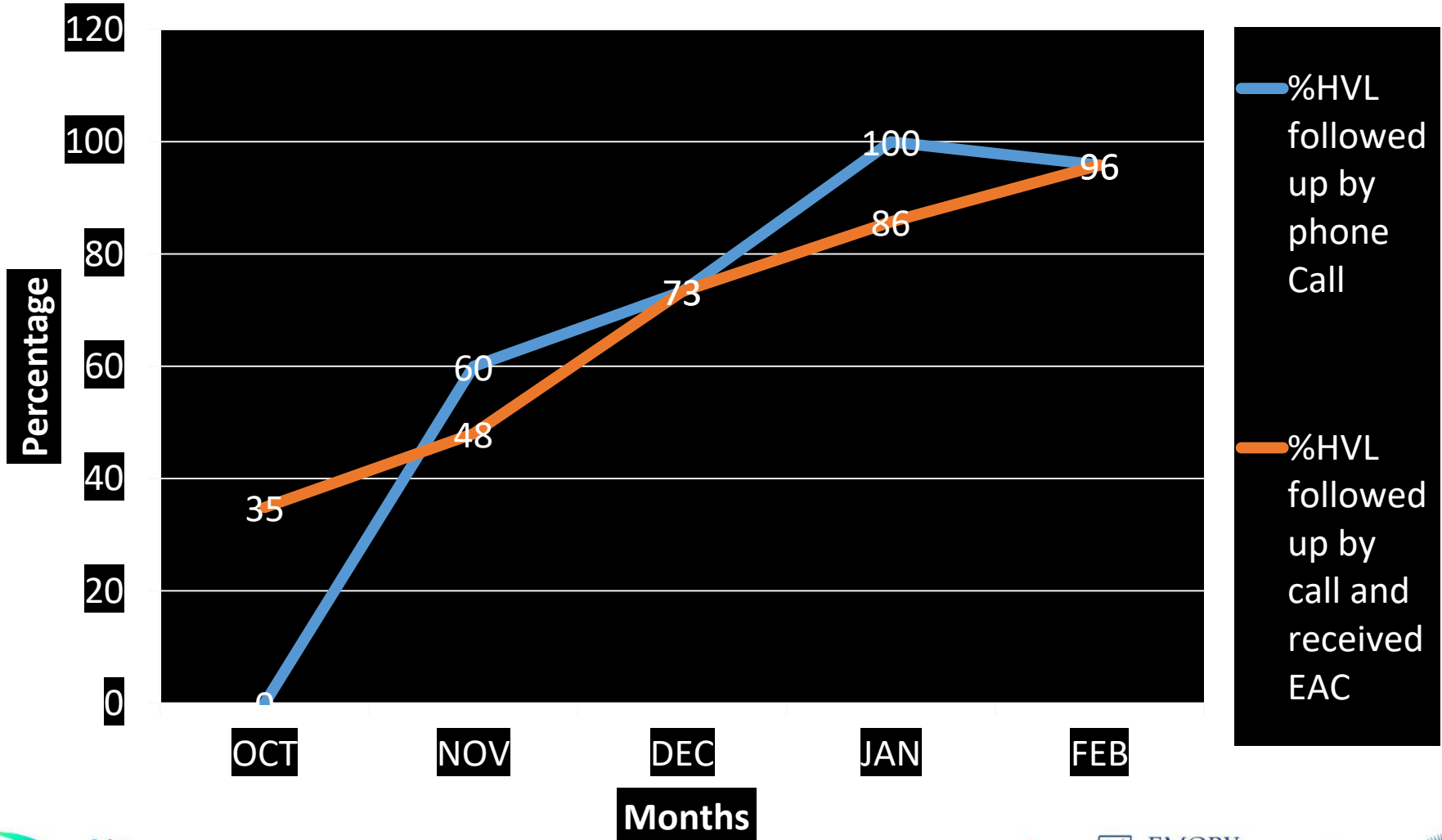


Visual Management



Results

High Viral Load Clients` follow up Mkuranga CTC

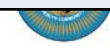


Results to Come



Tanzania: Results Reporting

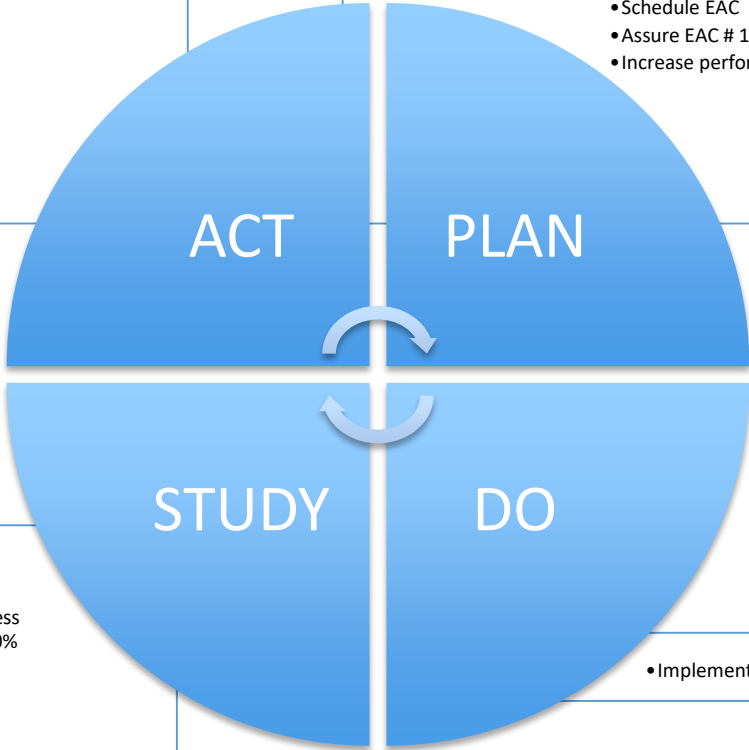
Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
<ul style="list-style-type: none"> <input type="checkbox"/> Results are not received in a timely manner at the clinic from the laboratory <input type="checkbox"/> Results are not recorded in the client's chart in a timely manner <input type="checkbox"/> No standard operating procedures for results reporting and documenting results in the client's chart 	<ul style="list-style-type: none"> <input type="checkbox"/> Results are occasionally received in a timely manner by the clinic from the laboratory <input type="checkbox"/> Results are occasionally recorded in the client's chart in a timely manner but often not returned to clients <input type="checkbox"/> Standard operating procedures for results reporting and documenting results in the client's chart are in development 	<ul style="list-style-type: none"> <input type="checkbox"/> Results are regularly received by the clinic in a timely manner from the laboratory <input type="checkbox"/> Results are regularly recorded in the client's chart in a timely manner and returned to the client regularly <input type="checkbox"/> Results reporting and chart documentation standard operating procedures are established and implemented across the organization 	<ul style="list-style-type: none"> <input type="checkbox"/> Organization reviews routinely collected program data to measure performance in relation to standard operating procedures and national guidelines for results reporting <input type="checkbox"/> Clinic ensures a facility-based person is accountable for timely recording of VL results in client charts and notification of clients with VL>1000 to return to clinic prior to scheduled appointment 	<ul style="list-style-type: none"> <input type="checkbox"/> Organization uses rigorous evaluation procedures and findings to demonstrate effectiveness and improve the process for results reporting
AUGUST 2016	NOVEMBER 2016	NOVEMBER 2016		





PDS A #1

- Standardize the solution
- Develop measures to new gaps
- Implement PDSA #3



- Call ↑VL pts within 48hrs
- Schedule EAC
- Assure EAC # 1
- Increase performance from 86% to 100% by January 2017

- Evaluate monthly progress toward the target of 100%

- Implement the plan from November to June 2017

Questions for Thought

- Continuous inter-cadre collaboration was facilitated by;
 - Meeting with entire staff during each site visit (clinician ,Lab personnel ,Data clerk , Pharmacist, Medical attendant)
 - Everyone is able to give the AIM statement
- The project leveraged existing VL in-country initiatives as it is assisting in quality HIV services and improved clinical health outcomes of patient

Lessons learned

- Are there lesson learned?
- Yes, the team learned that it is possible to achieve more just by :-
 - Providing supportive supervision & mentorship
 - Supplies
 - Team work-like inter-professional cooperation
 - Effective communication among team members
 - Airtime patient calling for return visit

Lesson learned

- **What will you do differently in the future?**
- The following will be our strategies for future:-
 - To expand the scope from one site to sites

Challenges / Changes

Challenges

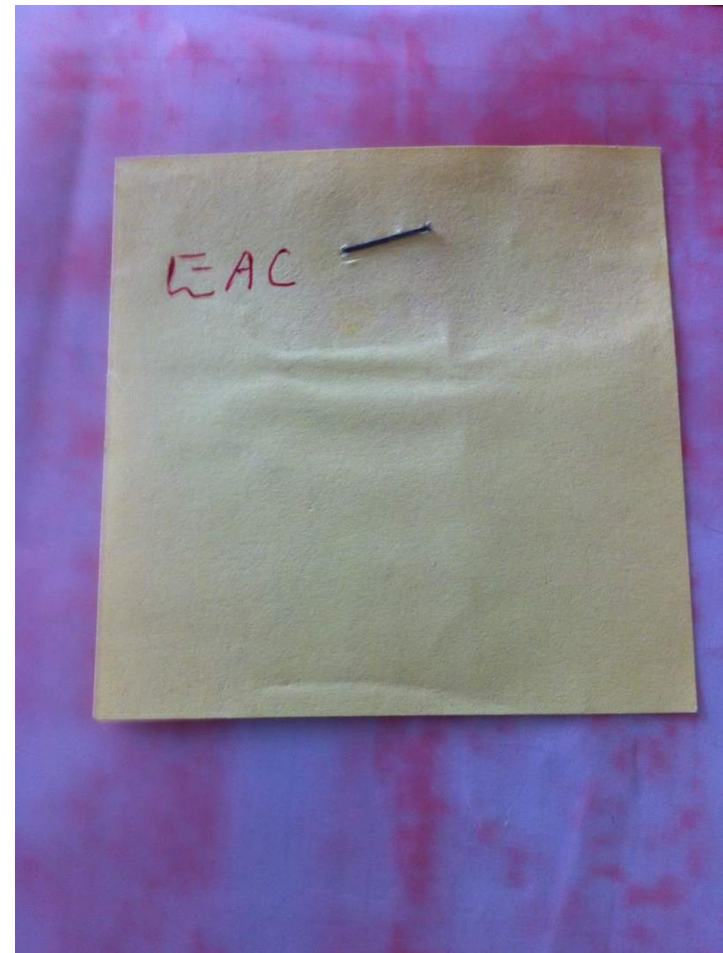
- Meeting as a team
- Delay of VL results in March and April due to missed supplies

Do differently next time

- Can't wait for the whole team to meet; Keep project moving even when all can't attend
- Must go to site to actually see what is occurring
- Regular communication with site
- Initiated MOU with
- Facilitate availability of MOU of VL sample testing with the National reference lab

Good Practices Identified

- Dedicated Phlebotomy Work station for VL patients
- Patients escorted to phlebotomy work station
- Creating a high viral load register from a notebook – Don't wait for permission
- Flagging of patients file with VL load result greater than 1000cps/Mil with yellow sticker
- Strong Team Engagement for QI projects
- "We became their team."



Way Forward

□ We will build on what we accomplished by:-

- Continue supporting for airtime to enhance

EAC

- Continue equipping the site with monthly data collection tool
- Conducting weekly data collection and follow up
- Conduct monthly data review and analysis to monitor trends for improvement
- Providing supportive supervision, Mentorship and training to identified gaps

Way forward

□ We will carry it forward to next level by :-

- Expanding the scope by adding three more sites for mentorship using the LARC project strategies used at the pilot site and resulted into improved viral load testing practice.

Cont...

- Sharing the success to National Viral Load Technical Working group through presentation and discussion
- Shared with Minister for Health for scaling up of the LARC strategies, awaiting for final report

THANK YOU FOR LISTENING

