Remote Assistance Facility B

Viral Load Results Reporting and Interpretation Cascade



Team Members

Responsibility	Team member
Champion/sponsor	
Team leader	
QI expert/coach	
Data Manager	
Frontline Members	
Other team members	



Background

 The CCC services were started in 20XX. There has been a total of 11,556 ever enrolled, with 3,565 currently on care. Out of these, over 93% are virally suppressed. There are approximately 100 clients seen daily.



Stakeholder Analysis (Stakeholder analysis Grid)

SATISFY ENGAGE -County Government -APHIA Plus -AMPATH-Plus -MCAs - Reference Lab -MEDSUP -SCASCO -CASCO -Colleagues -GIS **MONITOR INFORM** -Peripheral Health Facilities - Clients



THE STORY OF OUR PROJECT

5



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?
Ensure better management of our CCC clients	To increase the percentage of hard copy viral load results in the patient's files from 42% in September, 2018 to 90% by March, 2019. Metric: Numerator: Number of hard copy VL CCC patient results in the files. Denominator: Number of Viral Loads results received.	Intervention -Daily printing of VL resultsStudents routinely assigned to file the hard copy VL results under supervision.



Elevator Speech

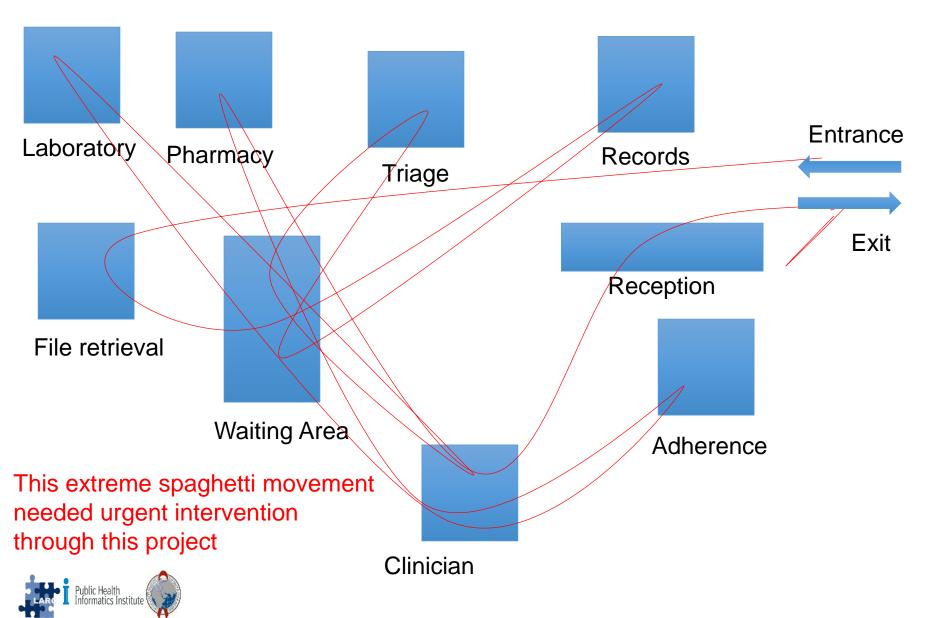
This project is about ensuring that hard copies of the viral load results are availed in the patient's files. As a result of these efforts, monitoring of clients' viral load suppression will be achievable. It's important because we are concerned about timely clinician interpretation of results and clients overall health.

Success will be measured by showing improvement in the percentage of hard copy viral load results available in the files. What we need from you is a viral load result printing machine dedicated to the CCC laboratory.



Old Process Map- Movement

The First Step Towards Improvement



Process Mapping The First Step Towards Improvement

Process Step	What Happens?	Who is responsible?	Duration	Forms/logs	Opportunity for Improvement
HTS Room	 Testing for identification Rapid test done if positive a confirmative test Client then referred to the ccc for care. 	HTS counselor	45mins to 1hr	 MOH 362 register Referral forms Linkage registers Locator forms 	Avail registers at the room
Adherence Room	 Retest done by a different person for confirmation Counseling on ARTs Health education on the advantages of the clinic File opening for registration 	Nurse ASC	1hr -1.5 hours	FileTreatment registerConfirmatory register	Avail job-aids
Booking Office	 Clients pick numbers File retrieval Clients triage	Peer educator	5-10mins	DiaryCardsDARPens/Cards	Update the next VL dates
Nurses Desk	 Arrangement of files Triaging Refer to clinician	Nurse	5mins	FilesPens	Take all vital signs



Process Mapping

The First Step Towards Improvement...cont

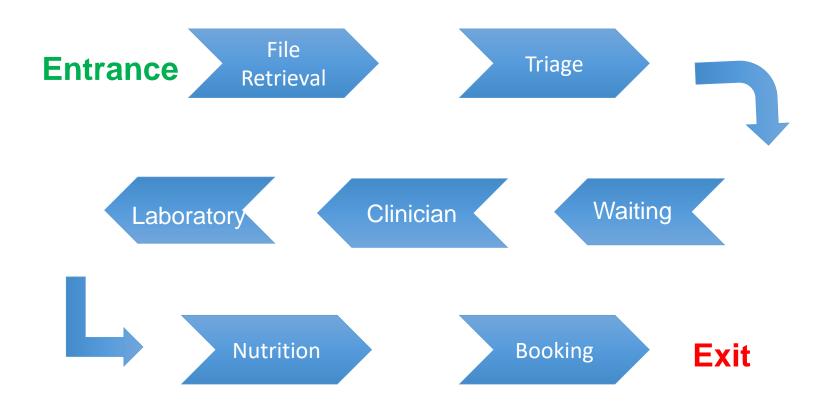
	THE THISC STEP TOWARDS HINDLOVETHERECOTT						
Process Step	What Happens?	Who is responsibl e?	Duration	Forms/logs	Opportunity for Improvement		
Clinician Room	 Counseling on ARVs and clinic revisits WHO staging Booking appointment for clients next visit Drug prescription Lab request is written by the clinician and client is referred to the lab 	Clinicians	20-45mins	FileEMRGreen cardsPens	Improve on confidentiality		
Laboratory	 Viral load Sample collection Sample packing for transportation to the testing lab Remote login Download and printing of results Documentation of vl results in the vl register 	Lab tech	10-15mins	 Lab request form Lab register Tracking log	Develop SOPs Avail printer		
Records	Booking Giving TCAs Filing of VL results	HRIOs	5-10mins	Appointment diaryDAR	Avail all registers File results promptly		
Pharmacy	Dispensing drugsCounseling for those who are mal and obese	Pharmacist	10-15mins	EMRRequest form	Report the VL flags from NASCOP		



The Problem area identified

New Process Map- Movement

The First Step Towards Improvement





Define Measure Analyze Improve Control

Gap (Problem Statement):

Following our baseline investigation, we found that only 42 % of files had VL hard copy results which negatively affects our quality of service.



Voice of Customer (VOC)

- VOC 1 Survey was done on Sept. 2018 on 15th and 16th on patients to gauge the magnitude of the problem in regards to service provision.
- A follow up VOC 2 was carried out on 22nd March, 2019 to assess the impact of the project
- Random convenient sampling was utilized to target the 26 willing respondents in VOC 1 and 19 in VOC 2.
- A simple questionnaire with 5 questions, Two in Likert scale, Two closed-ended while one was open-ended.
- The questionnaires were in two versions, Swahili and English to negate any language barriers.
- Respondents were allowed to fill the questionnaires within 30 minutes which was an adequate time.



Voice of Customer (VOC)

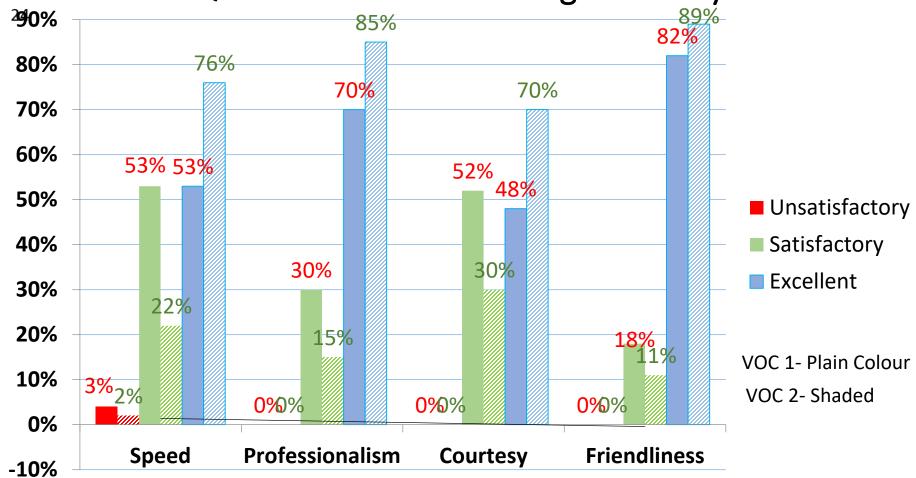
Questionnaire Sample

	Zisizoridhisha	Zinazoridhisha	Nzuri kabisa
a. Kasi			
b. Utasalamu			
c. Nidhamu			
d. Kutegemewa e. Urafiki			
	ibayo ungetaka tulmarishe?		
•			NDIO L
3. Je ungependa maha	abara ya hospitali ya Kaunti y	a Kakamega kuwa mahali pako	pakupimwa?
4. Je umewahi kupenc	lekeza huduma zetu Kwaye y	rote mwingine?	
		Zisizoridhisha Zina:	zoridhisha Nzuri kabisa
5. kwa jumu la maoni	yako kuhuzu huduma zetul e	0	
ASANTE KWA KUTENGA	MUDA WAKO ILIKUJAZA	FOMU HII.	
JINA LAKO: (HIYARI)			
NAMBARI YA SIMU:			
TAREHE			
Tafadhalitumbukizafomuhiind	faniyasanduku la maoni		
Hutoa huduma za m	ashahara kwa nchi v	PTILKWA SIKIL DIAMA TA	



Voice of Customer

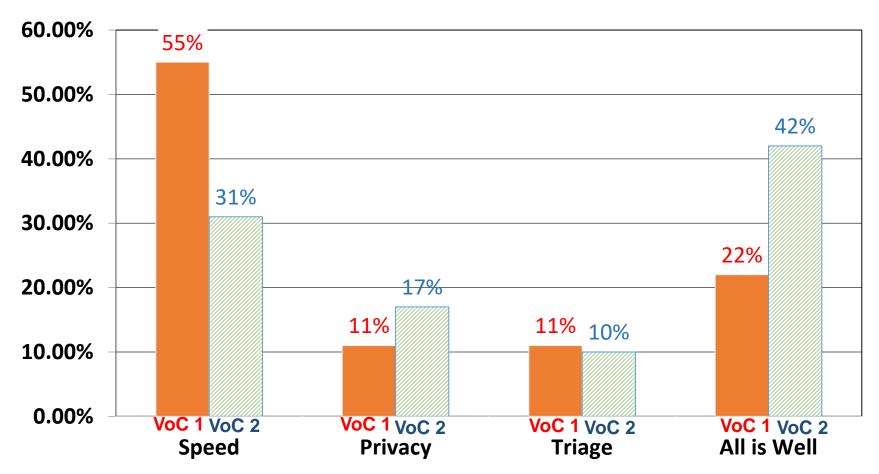
Question 1: Service Rating Generally





Voice of Customer (VOC) cont...

Question 2: Areas to Improve





Lessons from the VOC

- Questions 3 and 4 (not projected) showed high approval for the site as preferred and also recommended site in both VOCs.
- There was fair performance in speed, average performance in courtesy and good performance in friendliness.
- Question 5 (not projected): Rating of the services on the day of the survey showed an average of 50% in VOC 1 but slightly better in VOC 2 at 64%.
- Generally, more clients expressed more satisfaction with services in VOC 2 compared to VOC 1.



Define Measure Analyze Improve Control

Metric Selected

Numerator: Number of hard copy VL results in the files.

Denominator: Number of Viral Load results received.

Baseline Data

42% of files have VL hard copy results



Define Measure Analyze Improve Control

Data Collection Process

Data Collection Tool

Date of Review						
CCC No.	VL result received		Hard copy VL present			
	Yes	No	Yes	No		

Data Collection Plan

What	Who	How	Frequency
Baseline data	HRIO	File abstraction	Once
Project data review	LARC team	Collection and analysis	Monthly/ Every 3 days



Data Collection Process

The data was initially collected monthly and analyzed but the frequency was increased to twice per week cover for the lost collection points in order to achieve a minimum of 25 collection points in the project.

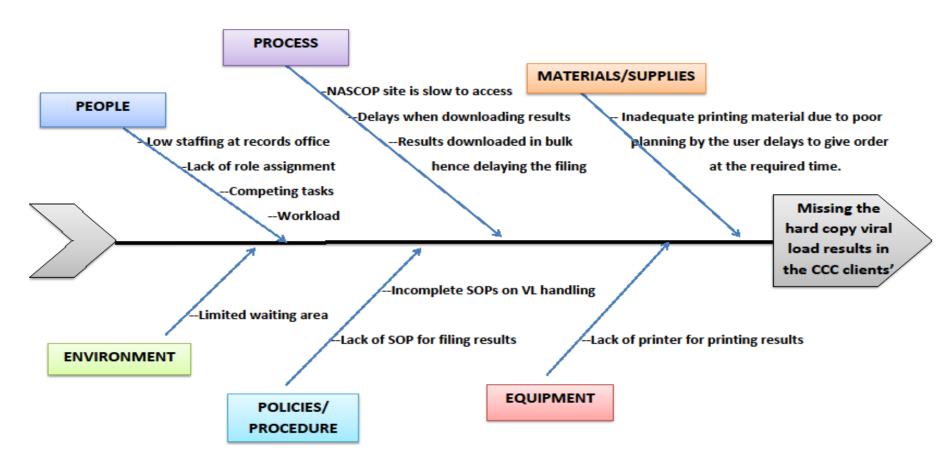
Data Analysis

The data collected was then fed into the spreadsheet which was then commanded to develop graphical presentations. The projections were presented to the LARC team biweekly for interpretations and adjustments to course.



Define Measure Analyze Improve Control

ROOT CAUSE ANALYSIS OF THE MISSING HARD COPY VLs IN THE FILES





IMPACT / EFFORT GRID A Tool for Prioritizing Opportunities

Major Improvement

IMPAC

mprovement Minor

Just Do It

- **Avail registers**
- Prepare lab SOPs
- Use job aids
- **Confidentiality**
- **Update VL dates in the DAR**
- **Constant Nut. supplement**
- **Report VL flags to the clinician**

Project

Filing VL hard copy results

Do if Impactful

Maybe Someday

Employ more staff

Difficult to do

Easy to do



EFFORT

Just Do Its

- 1. Avail all required registers at the identification stage √
- 2. To avail and mount job aids at the enrolment stage for efficient service **√**
- 3. To ensure that all vital signs are taken at the triaging stage √
- To develop and print viral load SOPs by the lab tech √
- 5. To ensure a steady supply of nutritional supplements **√**
- 6. To improve on confidentiality during the clinicians review by partitioning the rooms *In progress*
- 7. The pharmacy to ensure that delayed NASCOP VL flags are notified to the clinicians **v**



Define

Measure

Analyze

Improve

5s After

Control

5s Before



SOPs on the table



SOPs mounted on the walls





Students now assigned to update files routinely

VLs filed once in a while by the HRIOs



Measure

Analyze

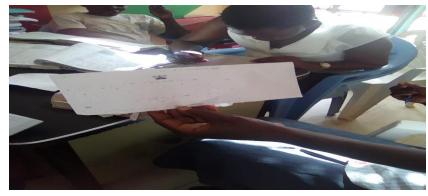
Improve

Control

5s Before



VLs at the HRIO waiting for collection



Loose results awaiting filing



Now all hard copy results are routinely filed. This has made the clinican's job easier



Define Measure Analyze Improve Control

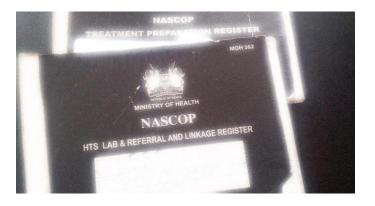
Visual Management Changes



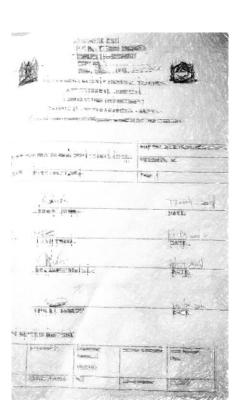
Job Aids



Job aids at enrolment



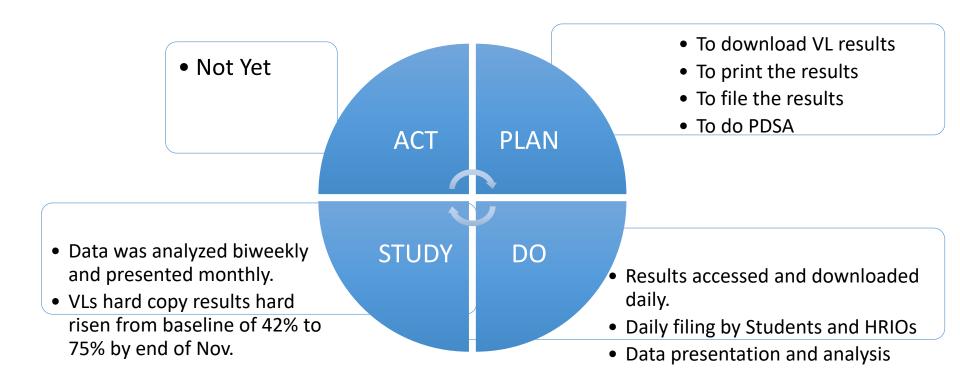
Registers at Testing



VL SOP at Lab

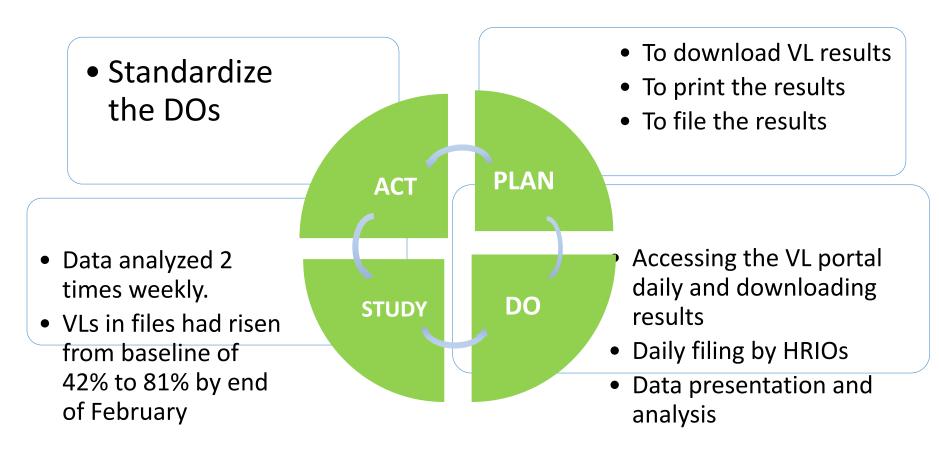


Small Test of Change 1 (PDSA)- November



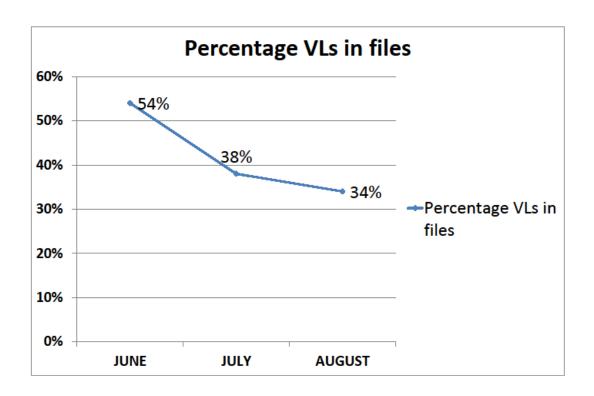


Small Test of Change 2 (PDSA)- March





Project Baseline Data



Baseline data was derived from 150 files abstracted from June, July and August which showed that only 42% of files had the VL hard copy results filed.

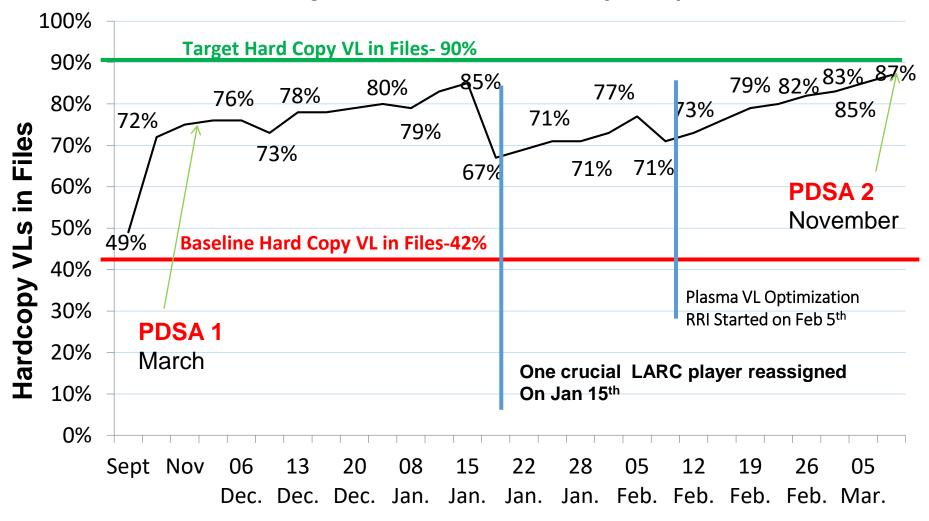


Project Raw Data from Sept., 2018 to Mar., 2019

Sept		49%
Oct		72%
Nov		75%
D	ec-04	76%
D	ec-06	76%
D	ec-10	73%
D	ec-13	78%
D	ec-18	78%
D	ec-20	79%
J	an-03	80%
J	an-08	79%
J	an-10	83%
J	an-15	85%
J	an-17	67%
J	an-22	69%
J	an-24	71%
J	an-28	71%
J	an-31	73%
F	eb-05	77%
F	eb-07	71%
F	eb-12	73%
F	eb-14	76%
F	eb-19	79%
F	eb-21	80%
F	eb-26	82%
F	eb-28	83%
M	ar-05	85%
M	ar-07	87%



Project Data Display



Timeline



Control Plan

Project Title: Filing of the Viral Load hard copy results in patient's files.

Project Owner: Critical Elements for Quality:

Process Step: The health records officers and the students to be assigned routinely to file VL results. **Output:**

Monitoring over Time:

Metric: Number of hard copy viral load results in the files/ Number of VL results received

Acceptable Range: 60%-95% **How Measured:** Monthly

Control or Reaction Plan:

Repeat of data collection within 2 weeks and reassess. Hold consultative meeting if data still lying outside acceptable range.

Accountability:

Who is responsible for measuring: Where is the measure reported: In the QIT meeting

To whom is it reported: Who is ultimately responsible

Related Documentation:

Process Map and Run Chart in the presentation.

Challenges

Challenges

- Bureaucratic channels delay printer and cartridge purchase and room partitioning which hamper quality service
- One Labtech previously dedicated to CCC now reassigned to other areas without replacement.
- Client optimization based on plasma VL increased the workload especially to the remaining labtech.

Address Challenges

- Room partitioning forwarded to the incoming NGO (AMPATH Plus) for follow up.
- Plans underway to recruit a replacement.
- Rapid Response Iniative ending in a month's time then hopefully thing will go back to normal.



Lessons Learned

- Through filling hard copies in the patients files we have reduced the number of patients who go home with wrong results.
- Minimal time is spent in spaghetti movement since we just check the VL results at the back of the file.
- With registers and job aids placed at the work stations, the time for new clients is quality and they are more confident with the services provided.
- The new VL SOPs allow for professional service provision.
- It has been easy for the Clinicians to quickly optimize clients, to start STF interventions and to promptly switch regimes without unnecessary delays.
- Simple job reassignments can greatly improve work output.



Action Plan

LARC 2.0 and beyond

Goal	Action Item	By Whom	By When	Outcome
To attain and maintain the percentage of hard copy viral load results in the patient's files above 95%	1. To give feedback of LARC 2.0 end of project and beyond. To CCC, Hospital and AMPATH Plus		15th April, 2019	
	1. To print VL results		Everyday	Ongoing
	2. To file the hard copy results daily		Everyday	Ongoing
	4. Meet Monthly to assess LARC 2.0 impact and progress		Monthly	Ongoing





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