

Remote Assistance Facility F

Improve documentation of high VL
results in the EMR (IQ Care)

Team Members

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

Facility Information / Background

- Started in 1992 as a GOK Dispensary
- Catchment population: 130,000
- Bed capacity: 30
- Staffing: MO:2, Clinicians: 6, Nurses:32, Lab: 3, others staff: 100
- Average OPD Workload:7400/month
- Average deliveries:120/Month

STAKEHOLDER ANALYSIS

Column1	Column2	Column3
HIGH	<u>SATISFY</u>	<u>ENGAGE</u>
	<ul style="list-style-type: none"> • <u>County</u> 	<ul style="list-style-type: none"> • CHVS
	<ul style="list-style-type: none"> • <u>HMT</u> 	<ul style="list-style-type: none"> • KEMRI
	<ul style="list-style-type: none"> • <u>KEMRI</u> 	<ul style="list-style-type: none"> • DATACLERK
	<ul style="list-style-type: none"> • <u>LAB</u> 	<ul style="list-style-type: none"> • CLINICIAN
	<ul style="list-style-type: none"> • <u>KEMSA</u> 	<ul style="list-style-type: none"> • NURSE
		<ul style="list-style-type: none"> • LAB
LOW	<u>MONITOR</u>	<u>INFORM</u>
	<ul style="list-style-type: none"> • KEMRI 	<ul style="list-style-type: none"> • Patients
	<ul style="list-style-type: none"> • KEMSA 	<ul style="list-style-type: none"> • Community
	<ul style="list-style-type: none"> • COUNTY 	<ul style="list-style-type: none"> • USAID
	<ul style="list-style-type: none"> • FHI 360 	<ul style="list-style-type: none"> • County
		<ul style="list-style-type: none"> • Afya nyota
	LOW	HIGH



Story of our project

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>To achieve effective client management through Improved documentation of High VL results in the EMR(IQ Care).</p>	<p>AIM Statement: Improve documentation of high VL results in the EMR from 66% to 95% by Feb 2019.</p> <p>Numerator:</p> <ul style="list-style-type: none"> No. of high VL results documented in the EMR <p>Denominator:</p> <ul style="list-style-type: none"> Total no. of high VL results received in the lab 	<p>Intervention: Redesigning the process of receiving results from the lab to the records office:</p> <ul style="list-style-type: none"> Ensured availability of dedicated and functional computer in the data room. Entering HVL results in the EMR before filing. <p>Re-assignment of roles and responsibilities by task shifting less roles.</p> <ul style="list-style-type: none"> Dedicated staff to be entering the VL results in the EMR Identified VL/EID Champion in the facility

Elevator Speech

This project is about

- Improving documentation of High VL results in the EMR

As a result of these efforts

- Identify high VL missed opportunities and returned to care.
- Improve adherence counselling
- Improve VL uptake
- Improve quality of care ART clients

It's important because we are concerned about:

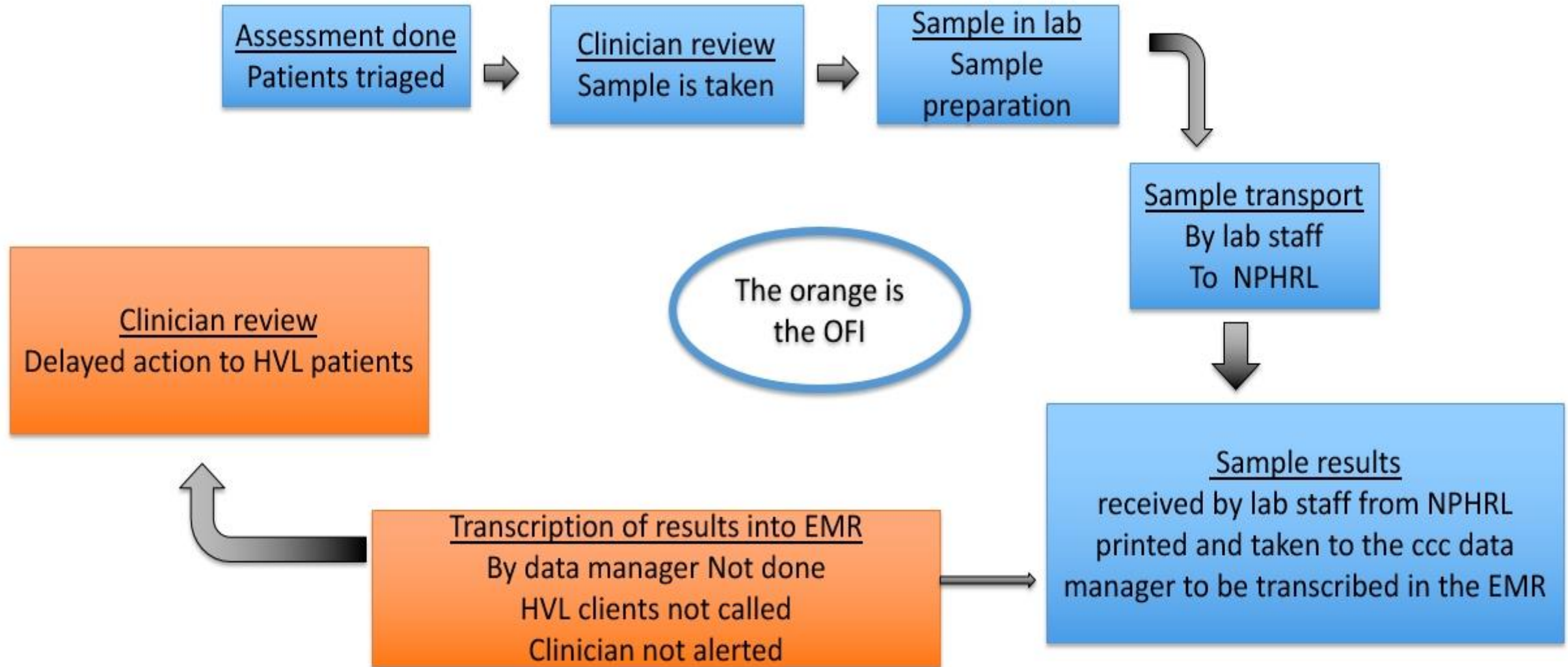
- ❖ VL Suppression rate
- ❖ Data accuracy

Success will be measured by showing improvement in:

- ❖ VL suppression rate
- ❖ Documentation
- ❖ Reduced VL TAT
- ❖ Patient care

What we need from you: resources, stationery, Computer, printer and mentorship support.

Old Process Mapping



Process Mapping

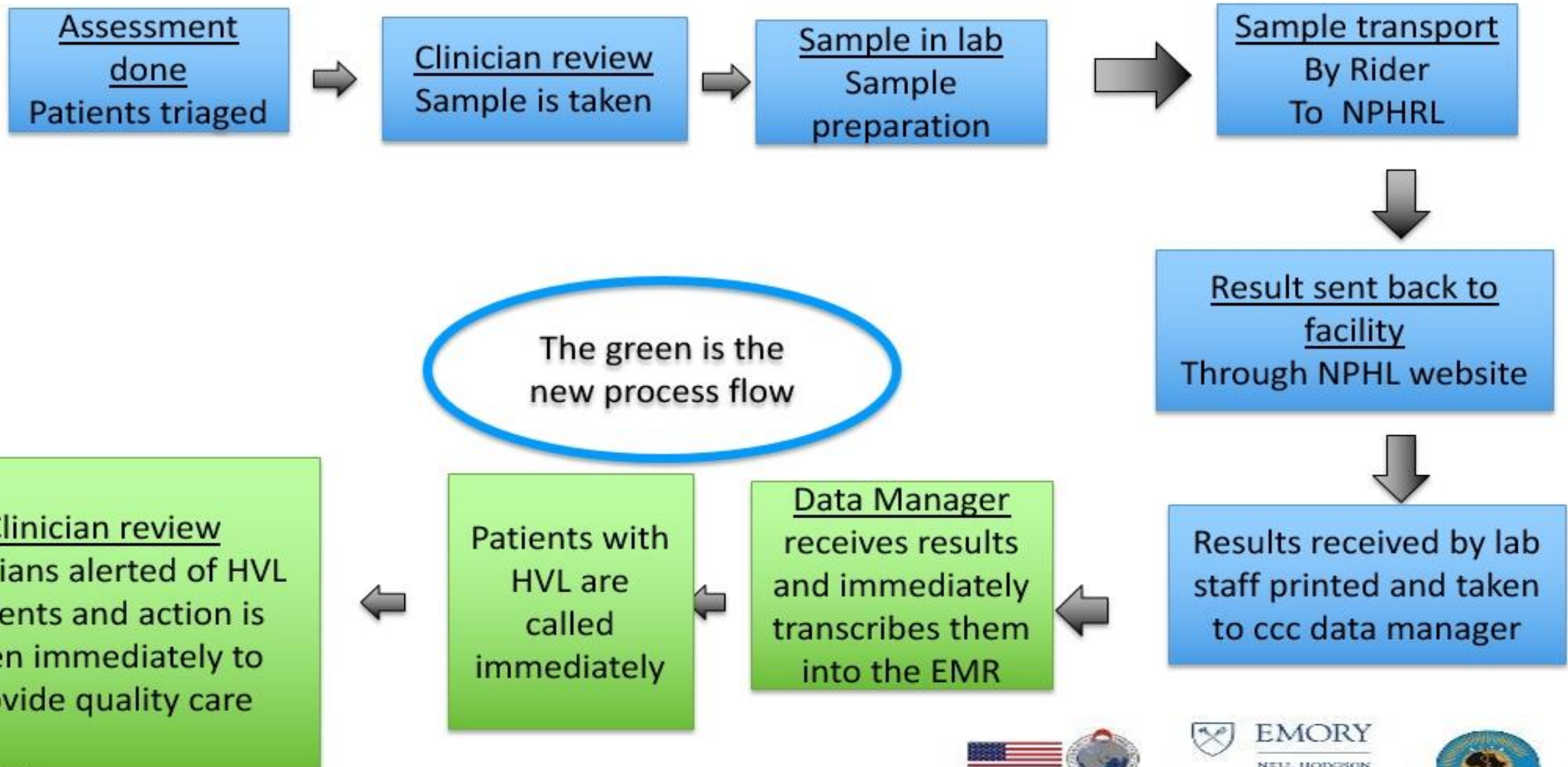
The First Step Towards Improvement

Process Step	What happens?	Who is responsible?	Duration	Forms/logs	Opportunity for improvement
File Retrievals	<ul style="list-style-type: none"> - File retrieved - Recording client visits 	Data Clerk Link desk Mentor mother	24hrs	Appointment book	<ul style="list-style-type: none"> - Defaulters called and not followed up later after the first call - Follow up of defaulter is not done
Triaging	<ul style="list-style-type: none"> - Taking Vitals - Express patients - Pill count 	Nurse	5 minutes	Green/Blue card	<ul style="list-style-type: none"> - No Bp machine in the CCC area. They borrow - No slot for temperature - Missing some vitals in the file BMI, Bp -
Adherence	<ul style="list-style-type: none"> - Adherence - Follow ups - Counseling of new clients - Confirmatory of the new clients 	Adherence	10 – 15 minutes	Blue card	<ul style="list-style-type: none"> - No suspected treatment failure register - No chv's checklist - No log for adherence recording - When adherence is done no notes are recorded - Not all patients of adherence linked to CHV

Process mapping

Data Records	<ul style="list-style-type: none"> - Filling the EMR register was done when the patient came for the appointment - Incomplete filling the ART register 	Records Officer	10-15 minutes	IQ care ART register	<ul style="list-style-type: none"> - Results missing in the IQ care and ART register - Viremia register missing
Consultation room	History taking and screening	Clinician/Nurse	10 – 15 minutes	Green Card	<ul style="list-style-type: none"> - VL not sent the right time for patients with adherence issues - Missing MDT book for recording
Pharmacy	<ul style="list-style-type: none"> - Verifying the file and the prescription - Dispensing from system and preparing the drugs to dispense - Actual dispensing - Confirm pill count if any issues send back the patient to the adherence counselor 	Pharmacy Officer	10 – 15 minutes	ADT and DAR register	<ul style="list-style-type: none"> - Missing MDT register
LAB	<ul style="list-style-type: none"> - Verify viral load requisition forms - Collection of the sample, packaging, transportation. - Receiving of the results and updating the VL tracking log. - VL champion Identifies and highlights high VL results and send to the data entry clerk in the CCC. 	Lab Officers	10 minutes	Sample viral load log	<ul style="list-style-type: none"> - Missing SOP on collection and release of results to clinicians/clients - Printer and computer needed in the lab

New Process





Gap (Problem Statement):

- Delayed clinical decisions due to Incomplete documentation of High VL results in EMR and files.

Voice of Customer (VOC)

- Our customer was the **Patients**
- Tool used to collect the VOC Questionnaire
- Collection Process - using random selection, 50 patients were surveyed using a self administered questionnaire

VOICE OF CUSTOMER SURVEY

On a scale of 1 to 5, with 1 being least satisfied and 5 being most satisfied, how satisfied are you with the following aspects of the current _____ process (Mark an X in the number Column that indicates your response):

ASPECTS	1	2	3	4	5
Records					X
Triage					X
Doctor					X
Adherence					X
Lab					X
Pharmacy					X
Aspect 7					X

For any 1 or 5 response, please share specific comments or examples to support your scoring:

2. Have you had a VL test? *no*

3. Do you know the results? *no*

4. What action did you agree with the Doctor? *Timing & Adherence*

5. What is working well:

Doctor

6. What needs improving:

Time

7. Please share any ideas for improvement or additional comments:

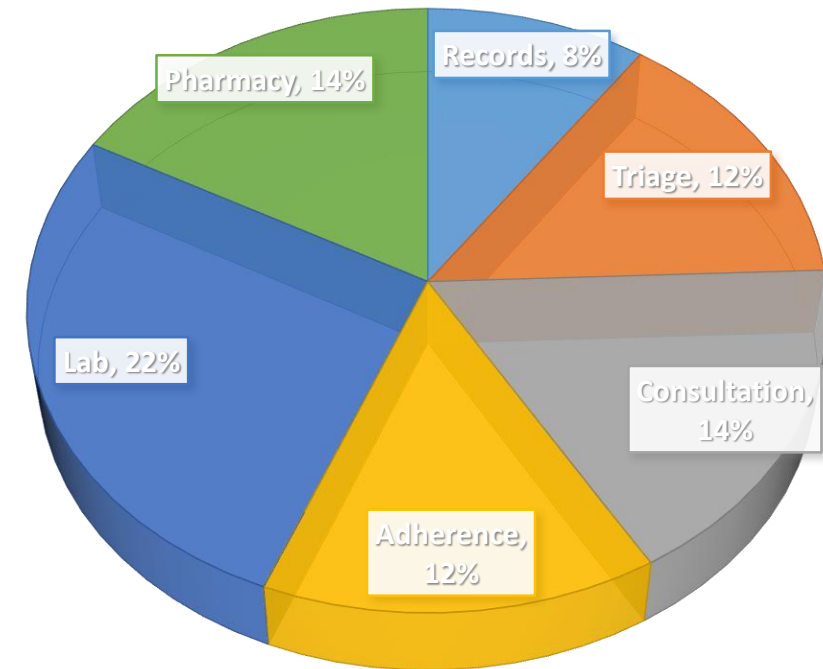
Privacy

RESULTS(N= 50)

RESPONSES

- In general: Satisfied(100%)
- Had VL: 44(88%), No: 6(12%)
- Know results:36(72%), No: 14(28%)

AREAS OF IMPROVEMENT

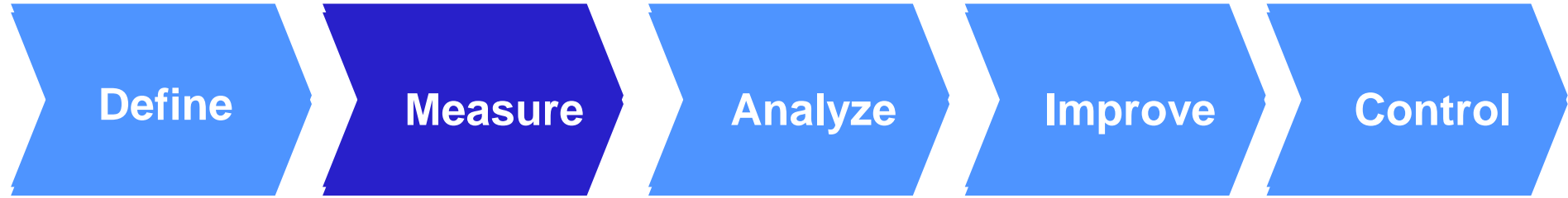


Lessons learned

- Departments were informed of areas of improvement
- Customer surveys should be carried out quarterly to respond to our customer needs.
- Clients are not aware of what HVL is and its importance.

INTERVENTIONS

- Give awareness talks to clients about HVL and its importance.

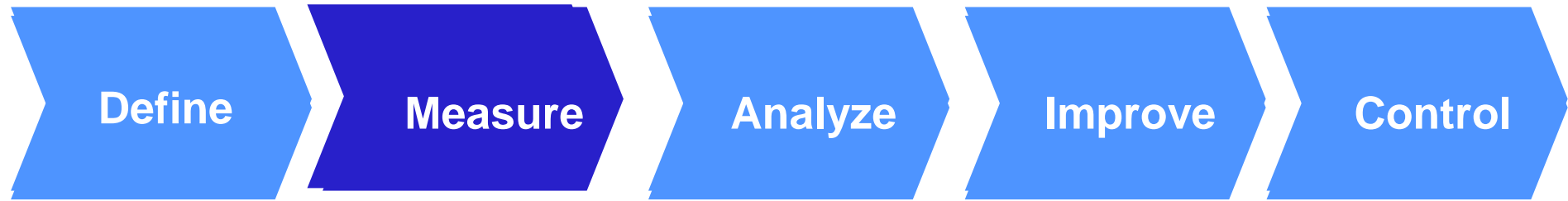


Numerator: No. of High VL results in the EMR

Denominator: Total no. of High VL results received in the lab

Baseline Data: 66% of patients had documented high VL results in EMR.

- Had 7 data points from Jan-Jul'18
- 66% is the average of the 7 months



Data Collection Tool

S.no.	OBJECTIVE:								
	1.To assess and establish the level of documentation for clients with high viral loads in the facility								
	2.To establish the documentation of the intervention process for clients with high viral load								
	3.To improve on the documentation of clients with high viral loads and the intervention process for the same.								
	CCC no.	Documentation(Y/N)				Intervention documented (Y/N)			
		file	ART Register	STF Register	EMR	file	ART Register	STF Register	EMRT
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

• Data abstraction checklist from Au

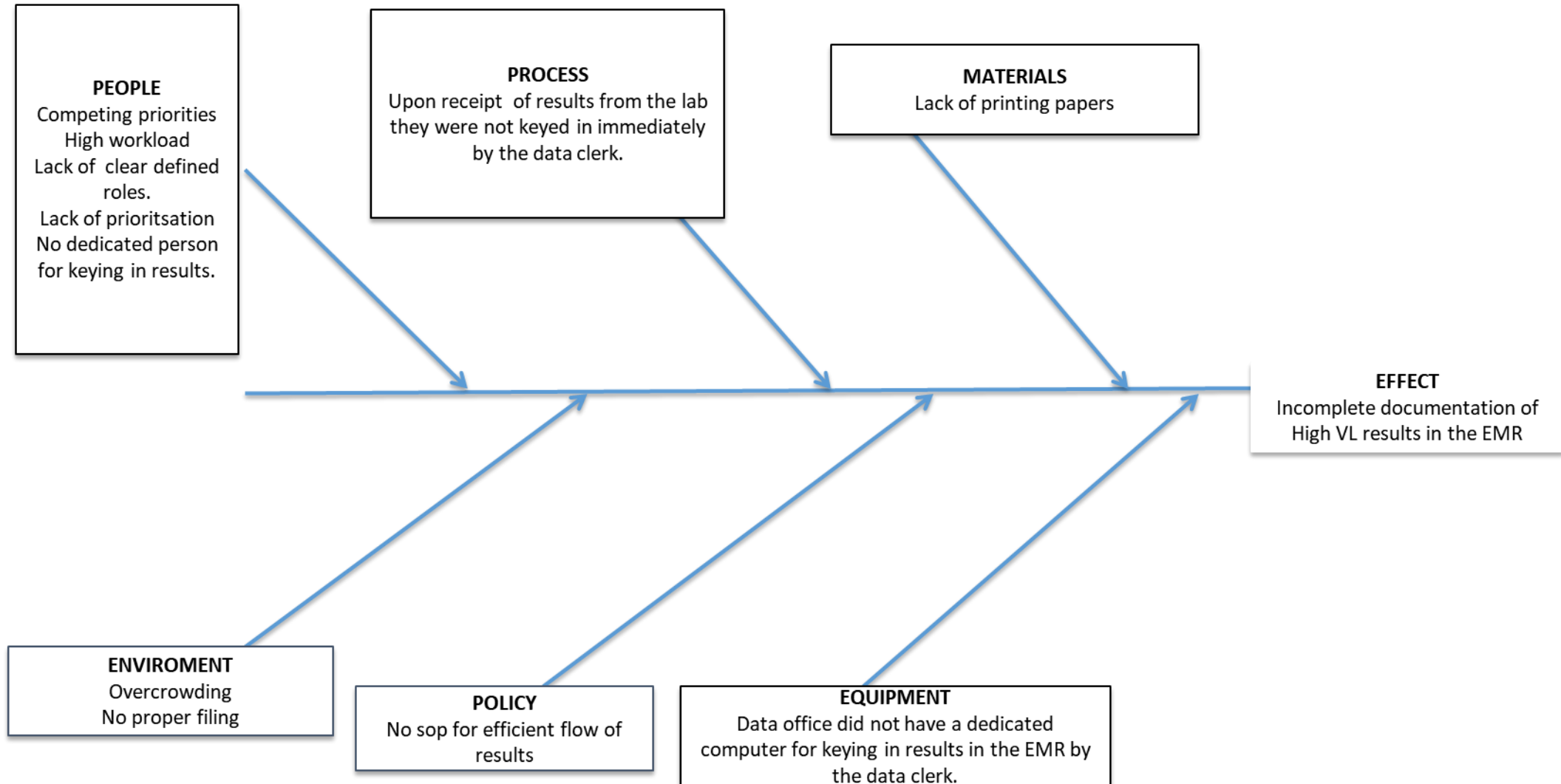
WHO	Brenda Kipchumba
HOW OFTEN	2 weekly
WHAT	Patient with high VL results, documentation in the EMR
WHERE	Records office, CCC
HOW	Using the log, data will be collected through record reviews
TRAINING	Using data collection tool
SUSTAINABILITY	Owned by Ongata Rongai health centre

Data collection process

- 7 data points for baseline
- Frequency: monthly
- Ongoing data: monthly
- Data analyzed and presented as a trend line

34% of the HVL results were missing in the EMR

Cause and effect diagram(fishbone)



Impact

major improvement

minor improvement

Just do it

- No documentation of MDT
- No BP machine
- No examination couch
- Testing confirmation by Adherence person
- No temperature in the green card
- No SOP in the lab
- Booked clients files not ready in the morning
- Computer and Printer(lab)

- Documentation of HVL in the STF register, file , ART register and EMR.

Just do it 2ND if impactful
Results not analysed

May be someday
Construction of a spacious CCC
Partitioning of phlebotomy area

Easy to do

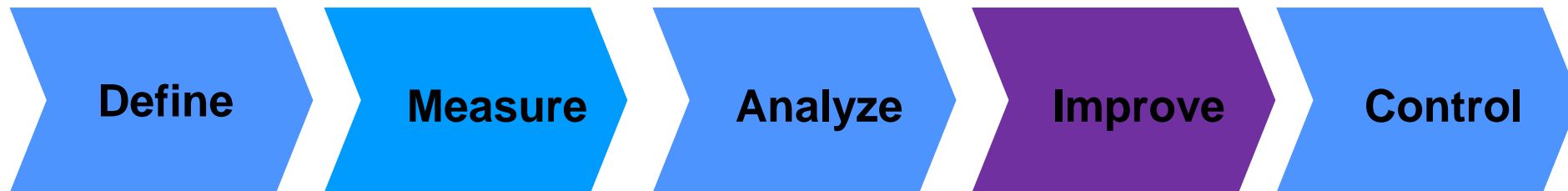
difficult

Effort



Just Do Its

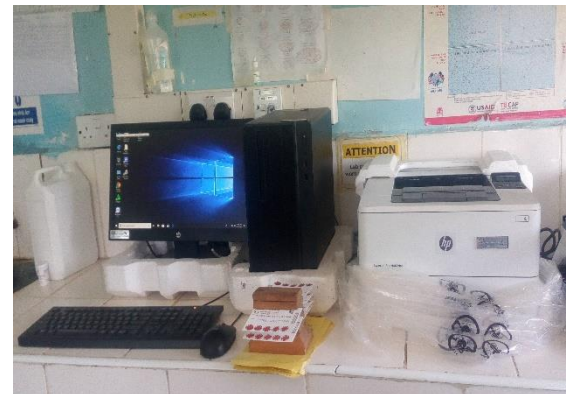
- Met all the departmental in charge of the facility
- Met cross cadre teams
- Gave a CME to all staff
- Met the care supporter: HSDSA

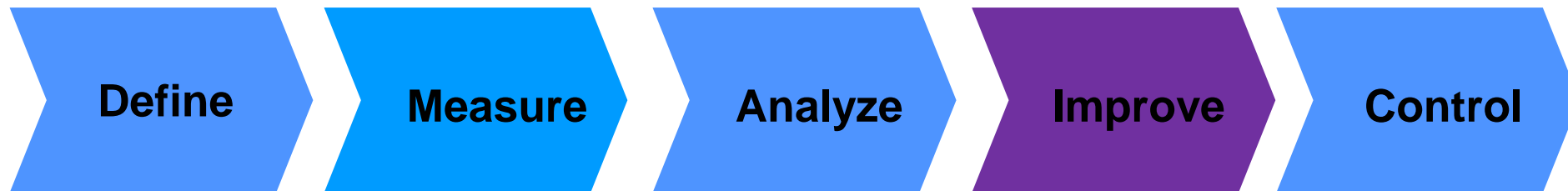


5S - BEFORE



5S - AFTER



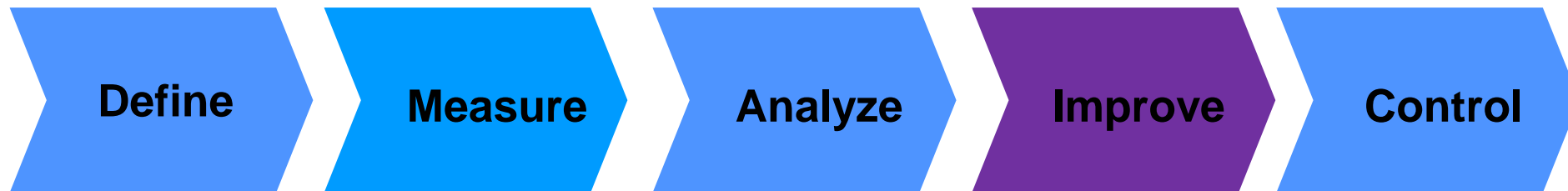


5S - BEFORE



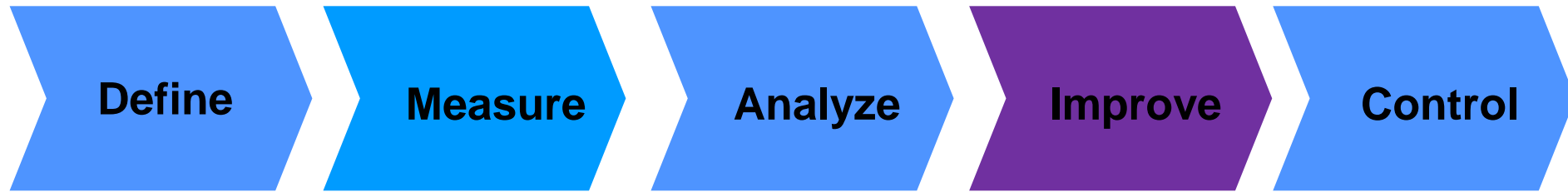
5S - AFTER



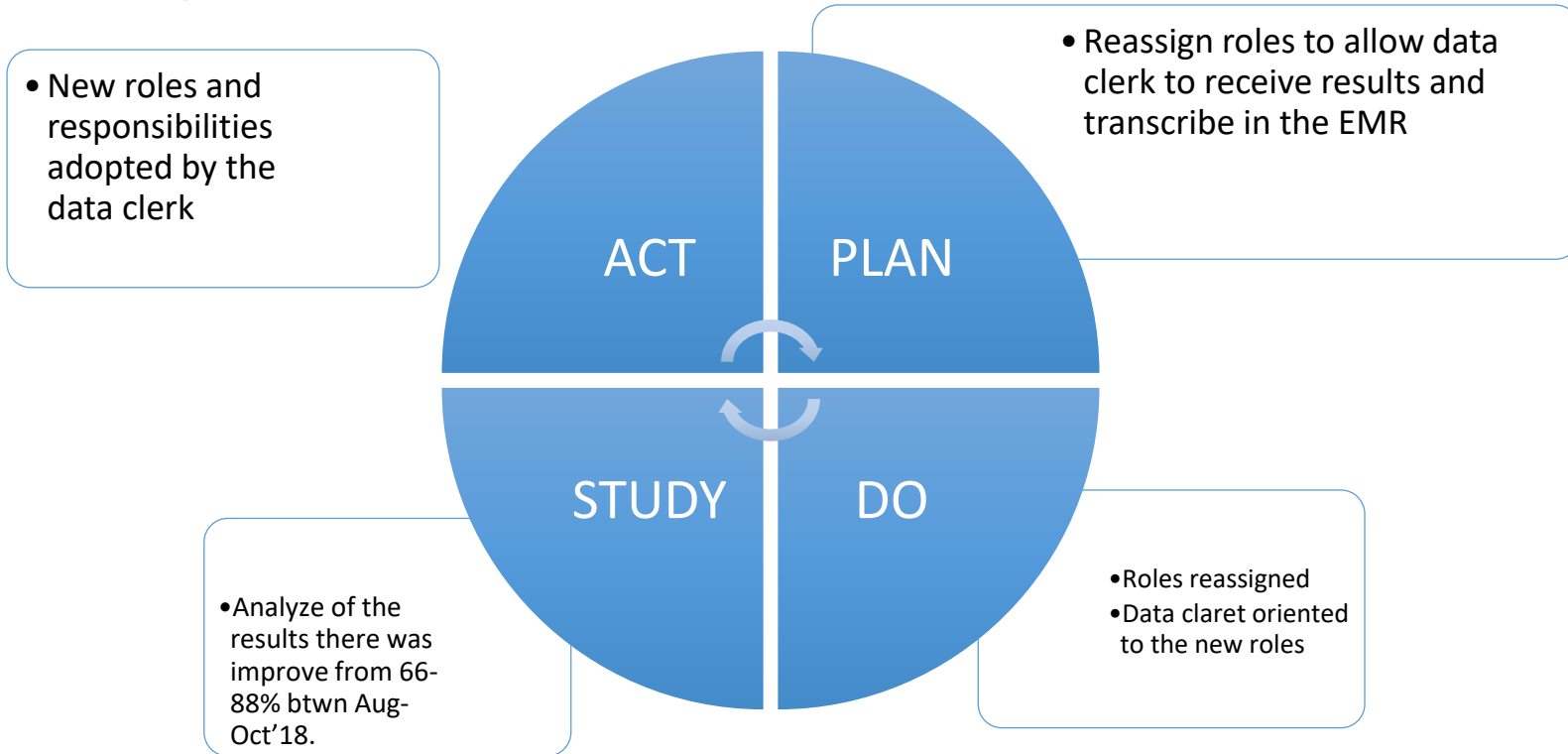


Visual Management



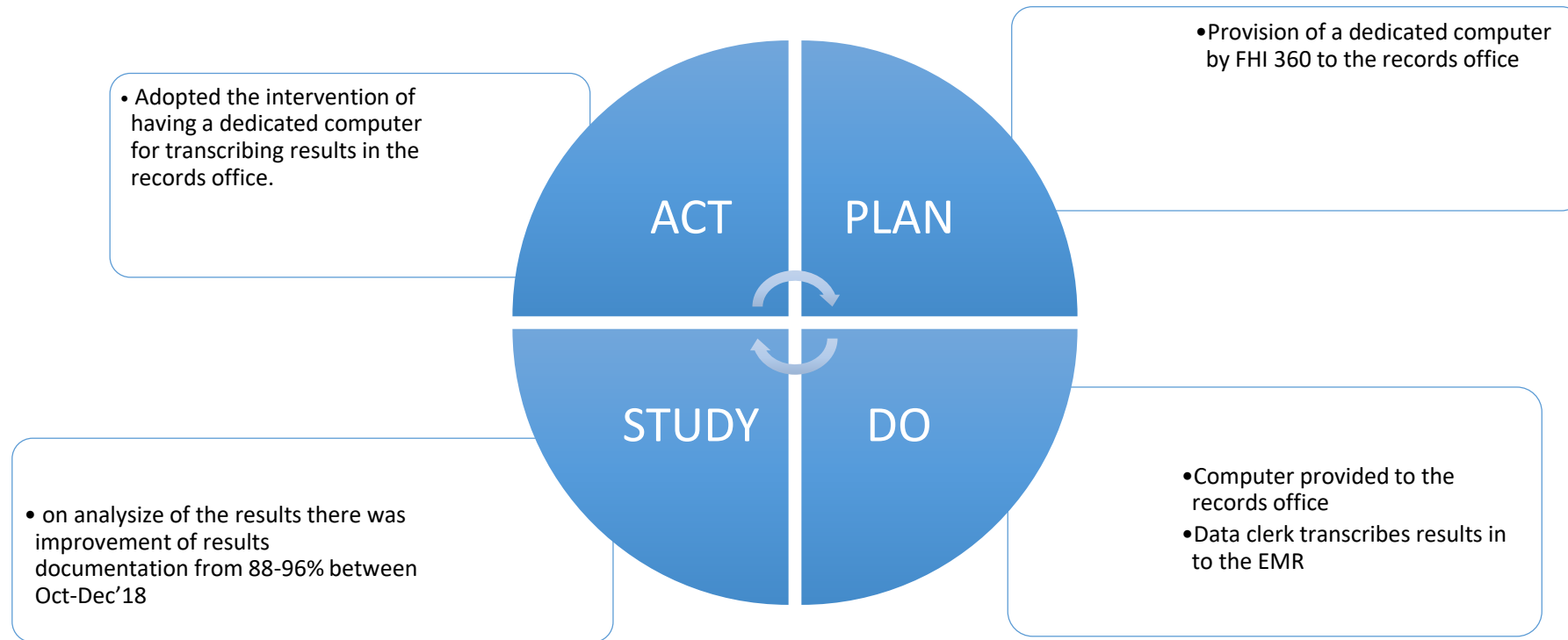


Small Test of Change (PDSA # 1)



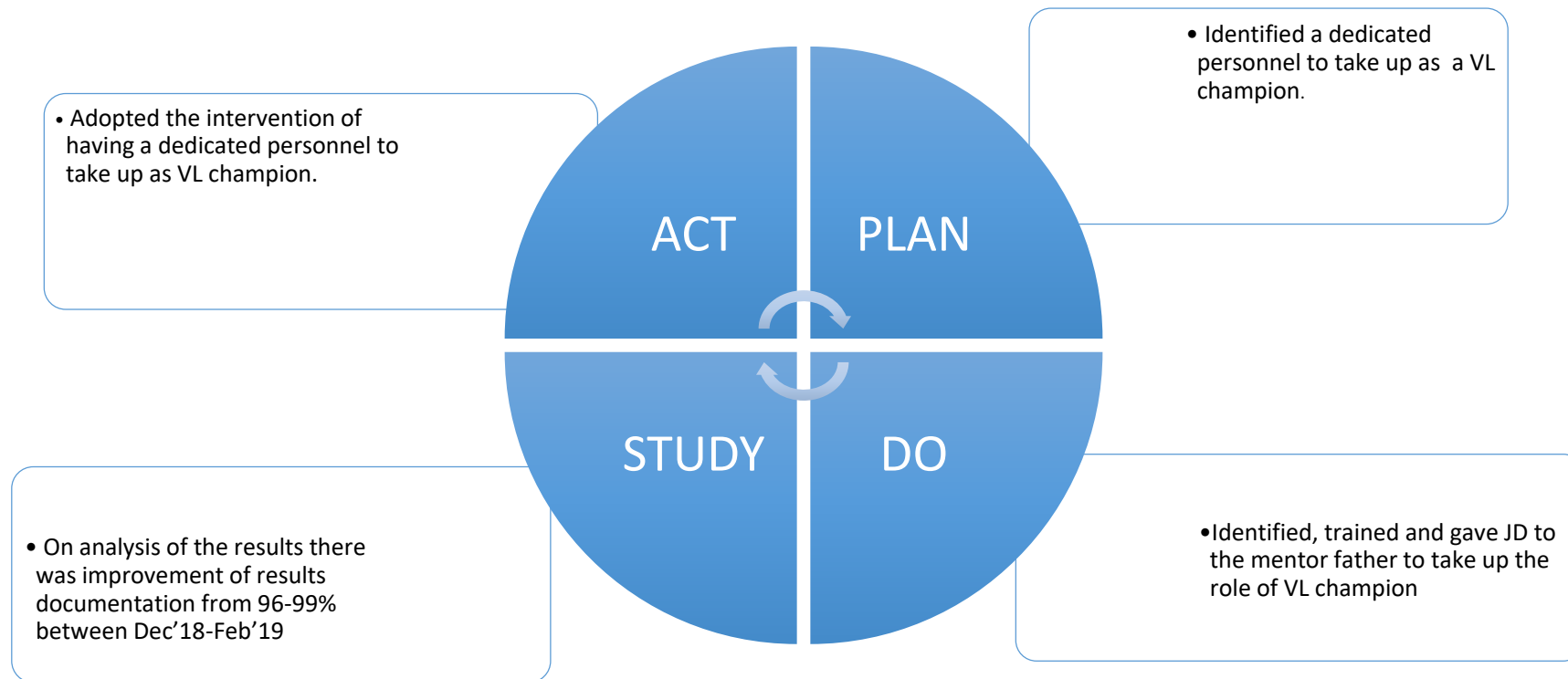


- Small Test of Change (PDSA #2)





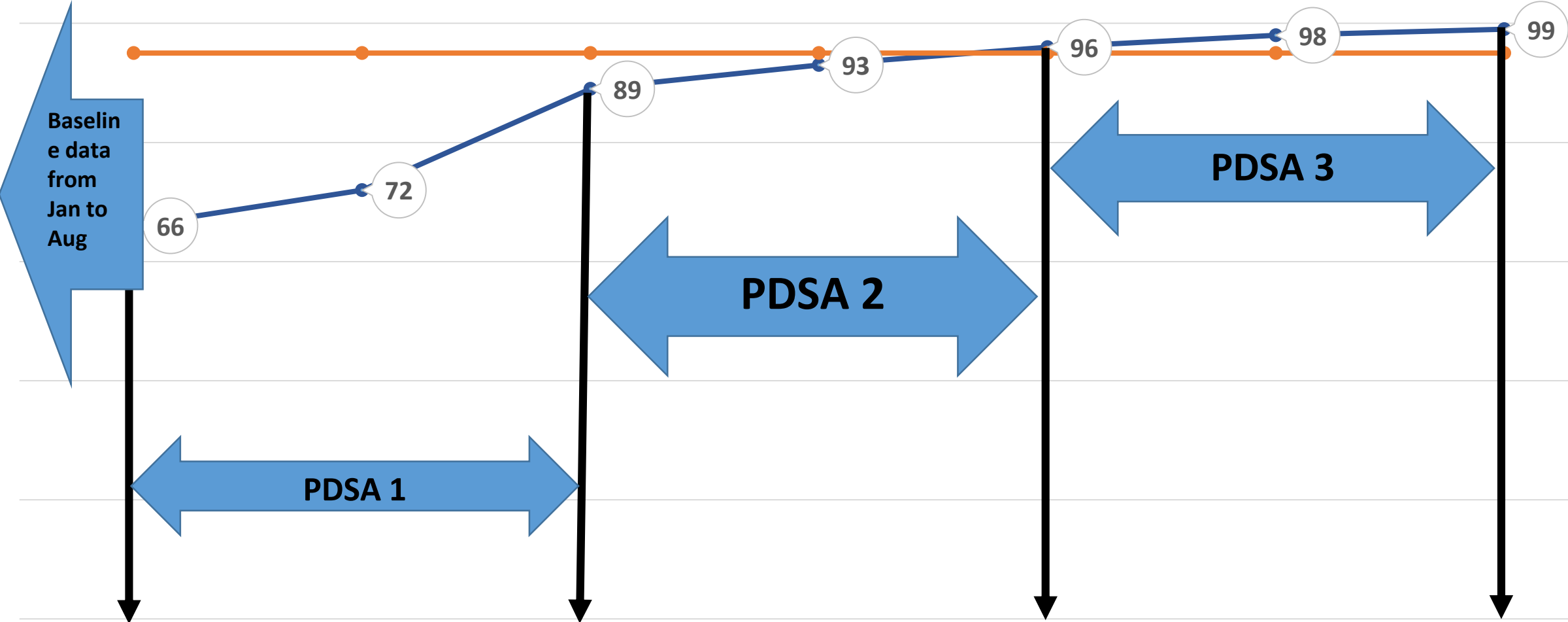
- Small Test of Change (PDSA #3)



Run Chart

% High VL results in EMR

● % ● Target





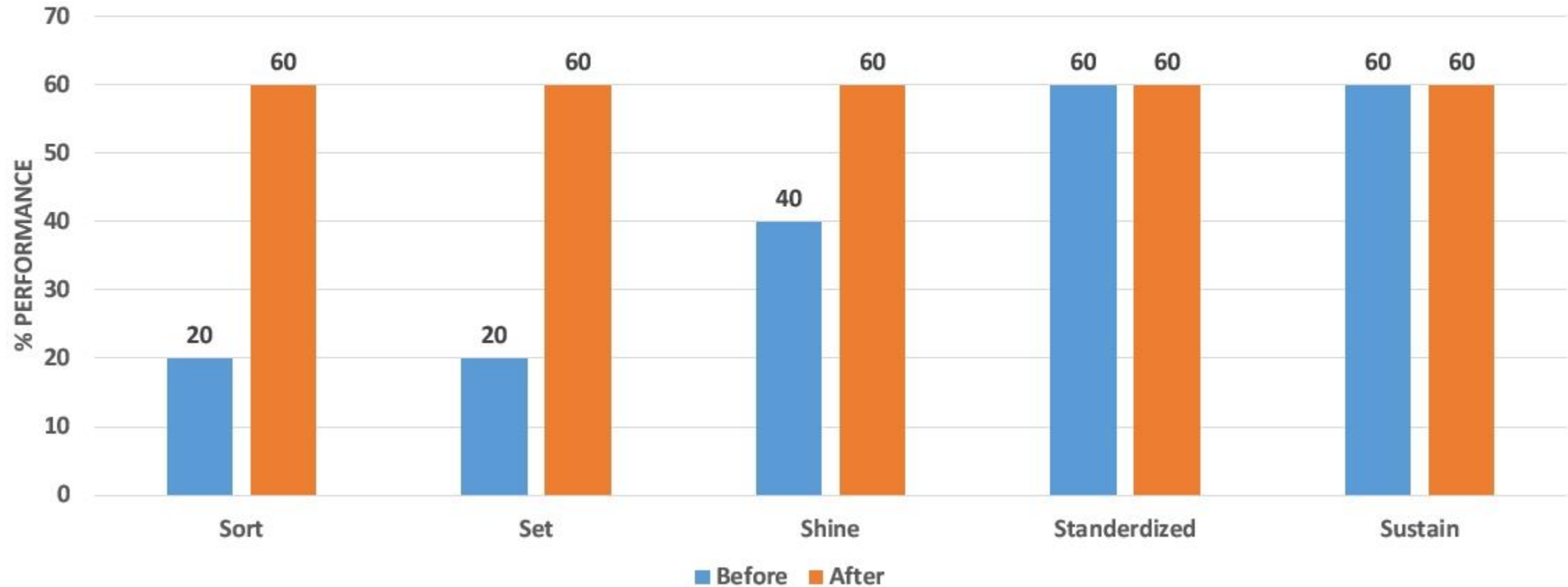
What we did to solve the problem

- Reassigned roles and responsibilities to allow data clerk to receive and transcribe results in the EMR
- Provision of dedicated computer by FHI 360 to the records office
- Identified dedicated personnel to take up as a VL champion.

The 5s

Sort, Set in order, shine, standardize, sustain

5S-Level of Excellence



Challenges

Challenges

- A. Getting information from the data manager
- B. Competing priorities
- C. Communication delays to the patients

Address challenges

- Reassigning of duties to the data clerk
- Appointing a VL champion
- Clinician can see results in the EMR and communicate to the patients

Lessons Learned

- Team work and intercadre communication
- Using CQI to tackle gaps in the facility
- Monthly meetings of the CCC stakeholders

THANK YOU