

Direct Assistance Facility D

Viral Load Cascade component-
PATIENT MANAGEMENT

Team Members

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

Facility Background

- It is a high volume facility located in one of 5 high HIV burden counties targeted for ART saturation
- 260 Beds, 20 Doctors, 300 Nurses, 20 Lab techs,
- 4400 ART patients on care, 130 ART patients a day.
- 1200 specimens collected for VL testing/month.
- Acts as a VL hub for other sites.
- Viral suppression rate 79.9% according to EID/VL dashboard.

THE STORY OF OUR PROJECT

- In patient management , documentation is very important. It was realized that apart from copying patients results from NHRL website on the patient files, hard copies results on patient files is a key requirement for evidence and reduction of transcription errors. 2017 only 24 % of client had VI hard copy results in their file, in 2018 it was 0%
- Therefore the project was a result of lack of verified hard copy results in the patients files

Stakeholder Analysis

Name	Level of support					Key interests/ issues	Assessment Impact (H,M or L)	Action items/strategy to influence	Key communication points
	R	SK	N	SP	E				
Partners	√					Materials Suppliers	H	Provide material after an order is given	
Patients				√		Quality care	H	Keeping appointments	
Staff				√		Give quality care	H	Attending patients on a timely manner	

Stakeholder Analysis

NAME	Level of support					Key interests/ issues	Assessment Impact (H,M or L)	Action items/strategy to influence	Key communication points
	R	SK	N	SP	E				
CASCO				√		Give Quality care	H	Sensitization on the new VL Guidelines	
Medical Superintendent				√		Give Quality care	H	Administration	
Suppliers				√		Give Quality care	L	Deliver what is procured	
Referral sites			√			Give Quality care	L	Transmit results on time	
Government and regulatory bodies				√		Give Quality care	L	Provide policies and guidelines	
	R-Resistant, SK-Skeptical, N- Neutral, SP-supportive, E – Enthusiastic						H- High M-Moderate L-Low		

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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>Improve patients documentation by having viral load results(hardcopy) in patient files leading to</p> <ul style="list-style-type: none">• Efficient client management <p>hence viral load suppression.</p> <ul style="list-style-type: none">• Increased trust in the results by clients and clinicians	<p>AIM Statement</p> <p>Increase % of files with hardcopy VL results in the patient file from 0 % to 90% BY march 2019.</p> <p>Numerator= Number of hard copy VL results filed Denominator= number of viral load results received from lab portal</p>	<p>Intervention</p> <ul style="list-style-type: none">• Redesigning the flow process to have the results printed by the lab.• Resources• And submit Hardcopy results to the data manager for filling in the patients files.

Elevator Speech

This project is about

Improving patients documentation by having patient VL hardcopy results in the patient files.

As a result of these efforts, we will have patient hardcopy results in their files ;

It's important because we are concerned about:

- Timely management of HIV patients.
- Reduction of transcription errors
- Increased trust in results by patients and clinicians
- Viral load suppression

Success will be measured by showing improvement in:

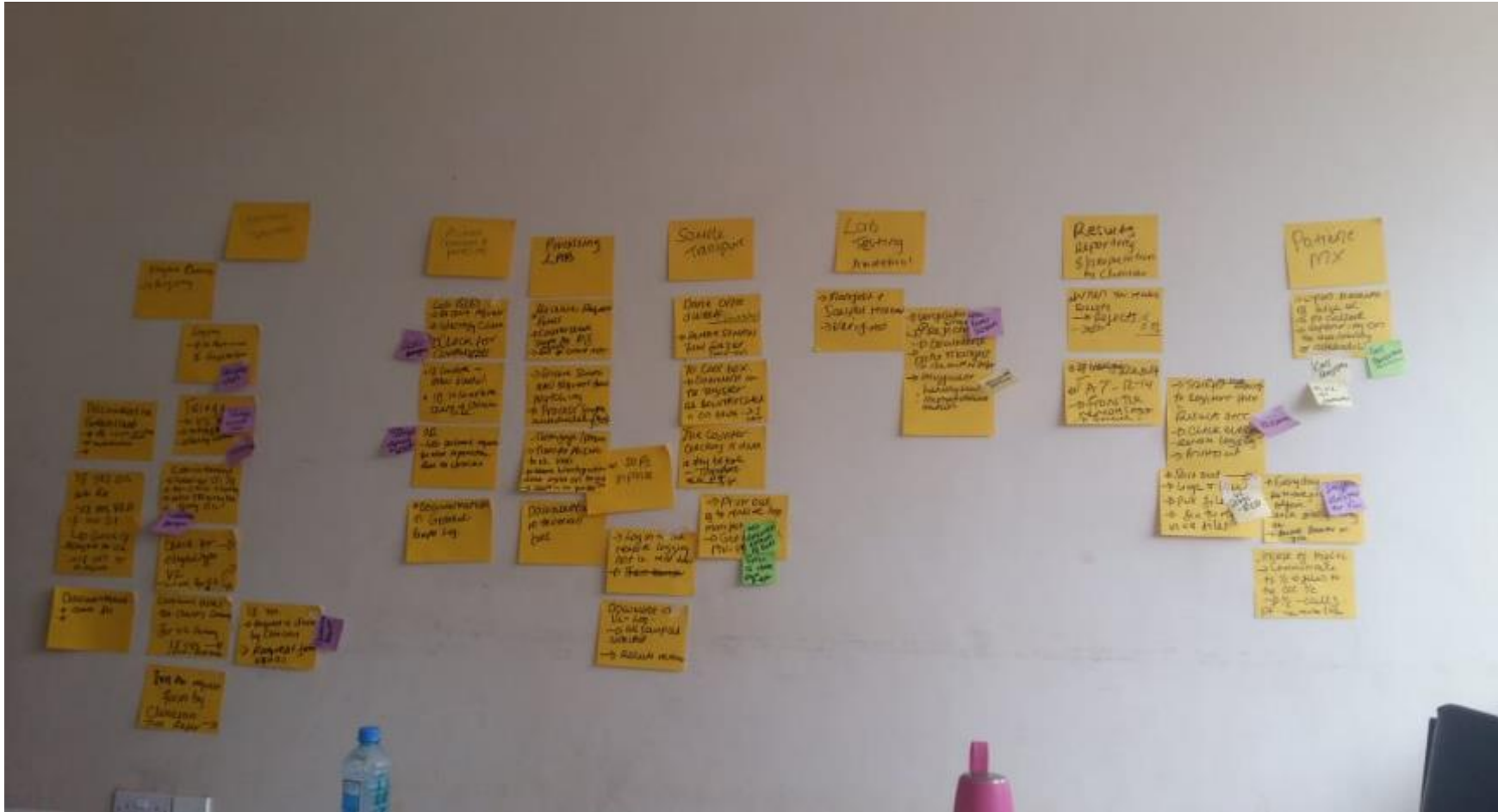
- Increased % of hard copy results in patient files

• What we need from you –

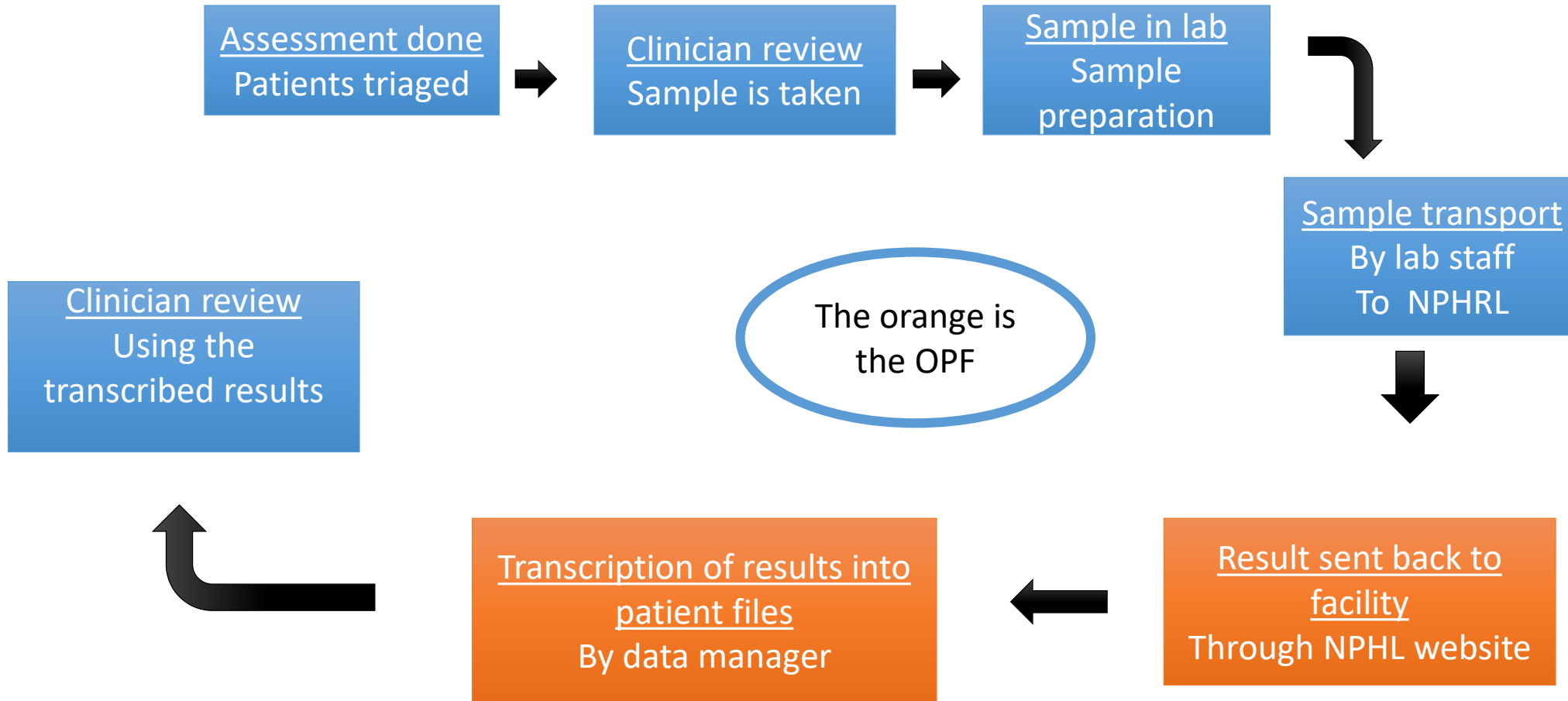
Administrative support & the spread of the change to other facilities within the county.

Process Mapping

The First Step Towards Improvement



Old Process Mapping





Gap

- Lack of printed hard copies of patient results leading to potential transcription errors hence leading to patients and clinicians doubting the results



- **Voice of Customer (VOC) - (Initial)**

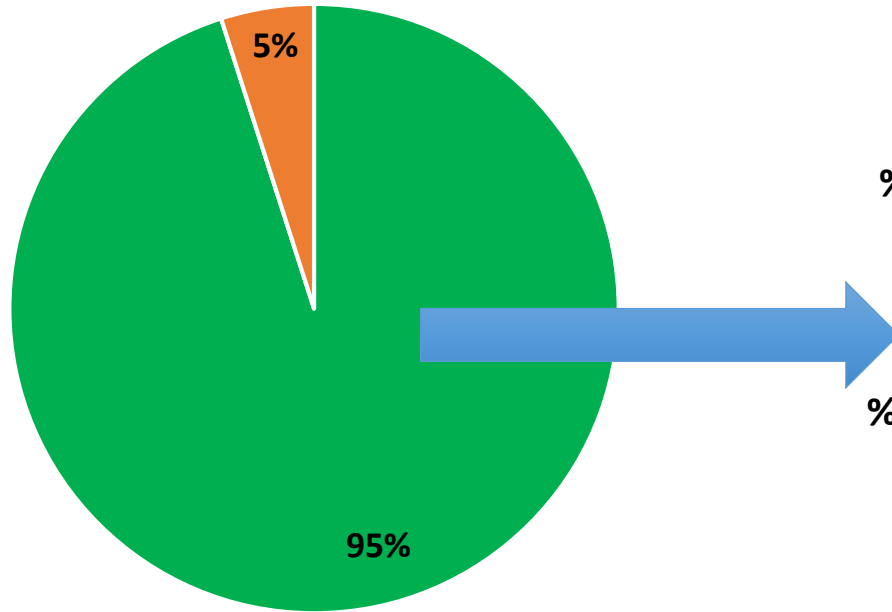
- Our customers are patients

- Tool used to collect the VOC is customer survey questionnaire

- In the Process 81 customers were surveyed.

VOC Results Oct 2018

VOC Results
n=81



- % of clients who responded to have been shown VL results
- % of Clients who responded to haave not been shown VL results

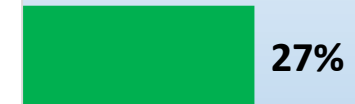
% of clients who responded to have been shown VL results n=77

■ % of clients who responded to have been shown VL results

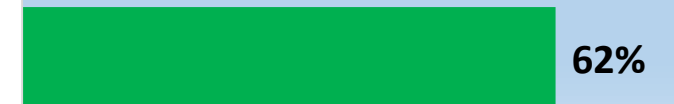
% of Clients who did not know



% of Clients who were not sure results belong to them



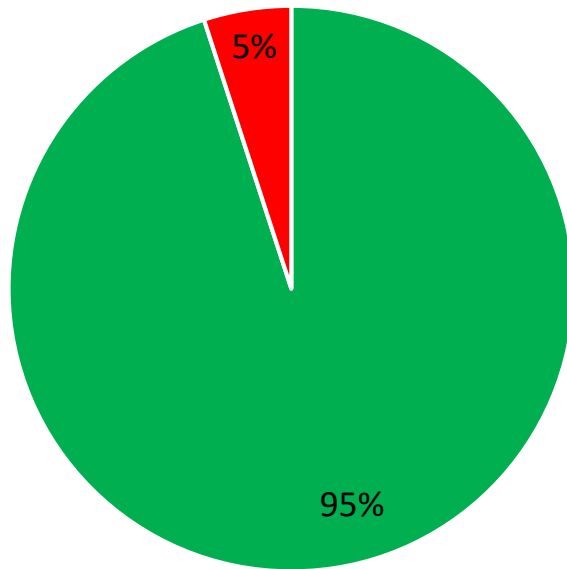
% of Clients who were sure results belong to them



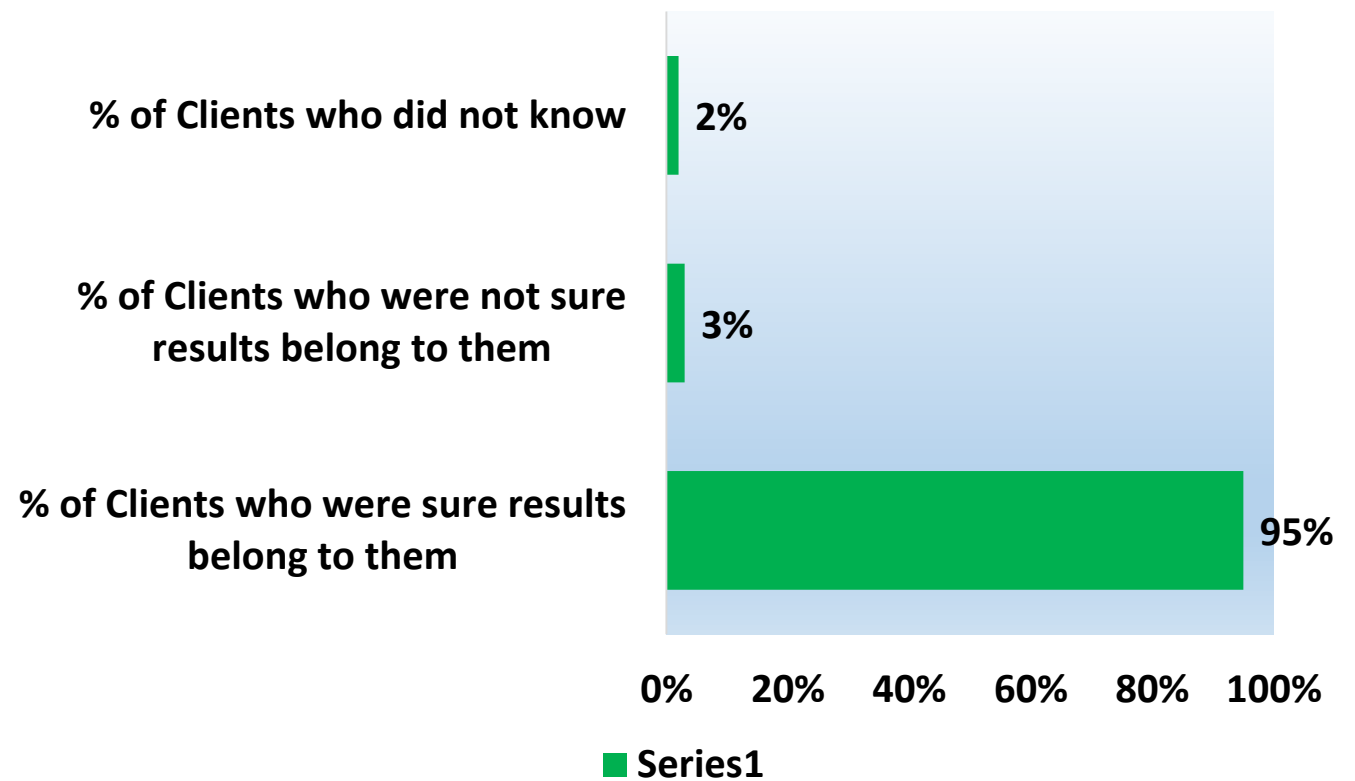
VOC Results Feb 2019

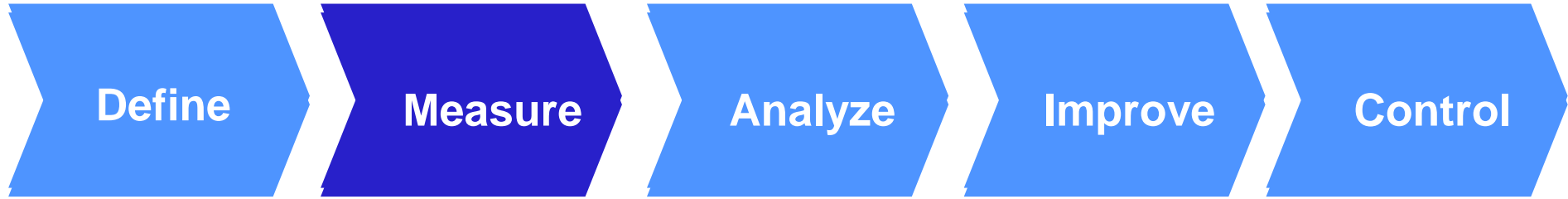
VOC 2 Feb 2019
n=81

- % of clients responded to have shown VL results
- % of Clients who responded not to been shown VL results



% of clients who responded to have been shown VL Results n=77





- **Metric Selected**

$$\frac{\text{\# of Viral Load hard copy results filed}}{\text{\# of viral load results received from Lab portal}} * 100$$

- **Baseline Data - 0%**



Data Collection tool

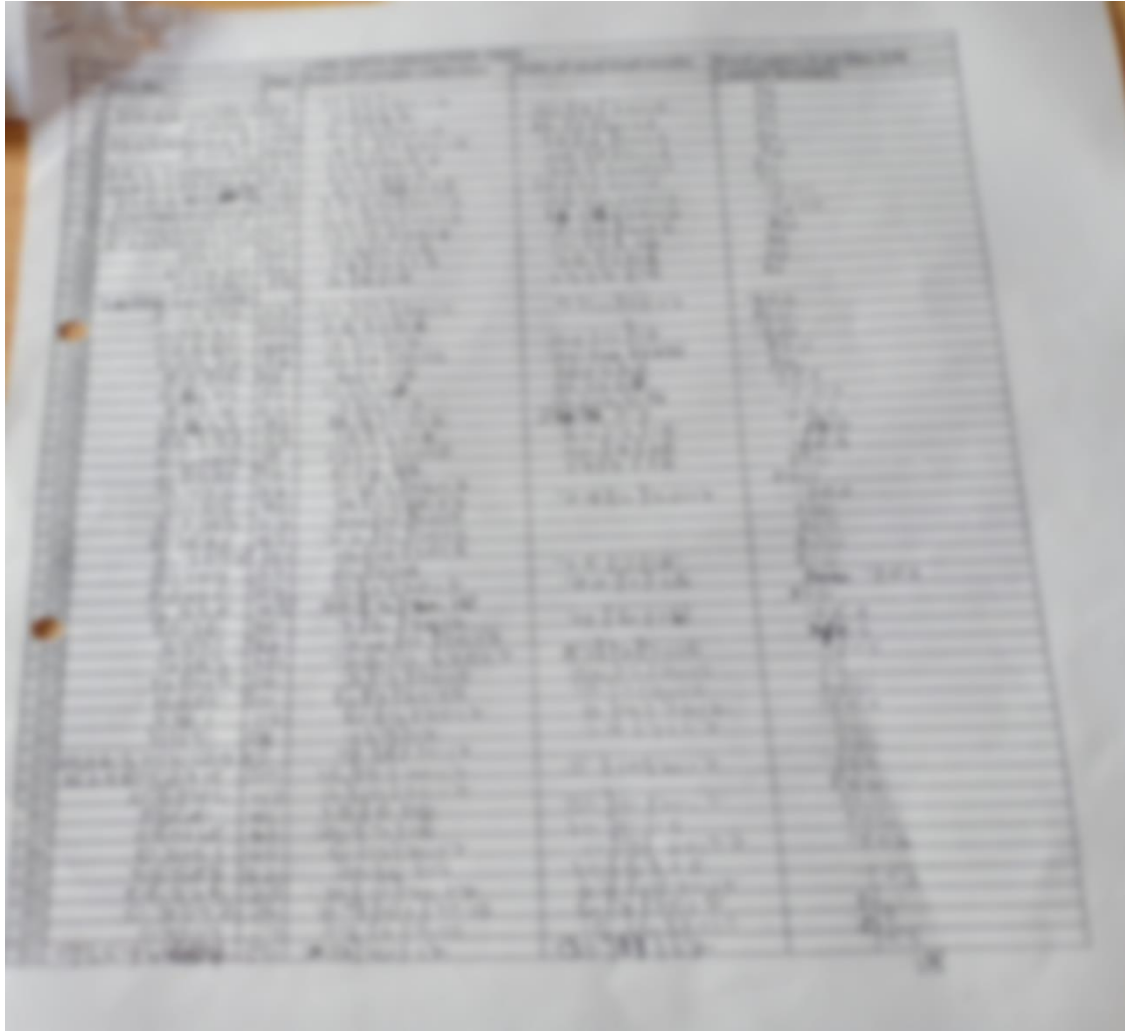
	CCC No.	Age	Date of sample collection	Date of viral load results	Hard copies in p (MOST RECENT)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

DATA collection plan

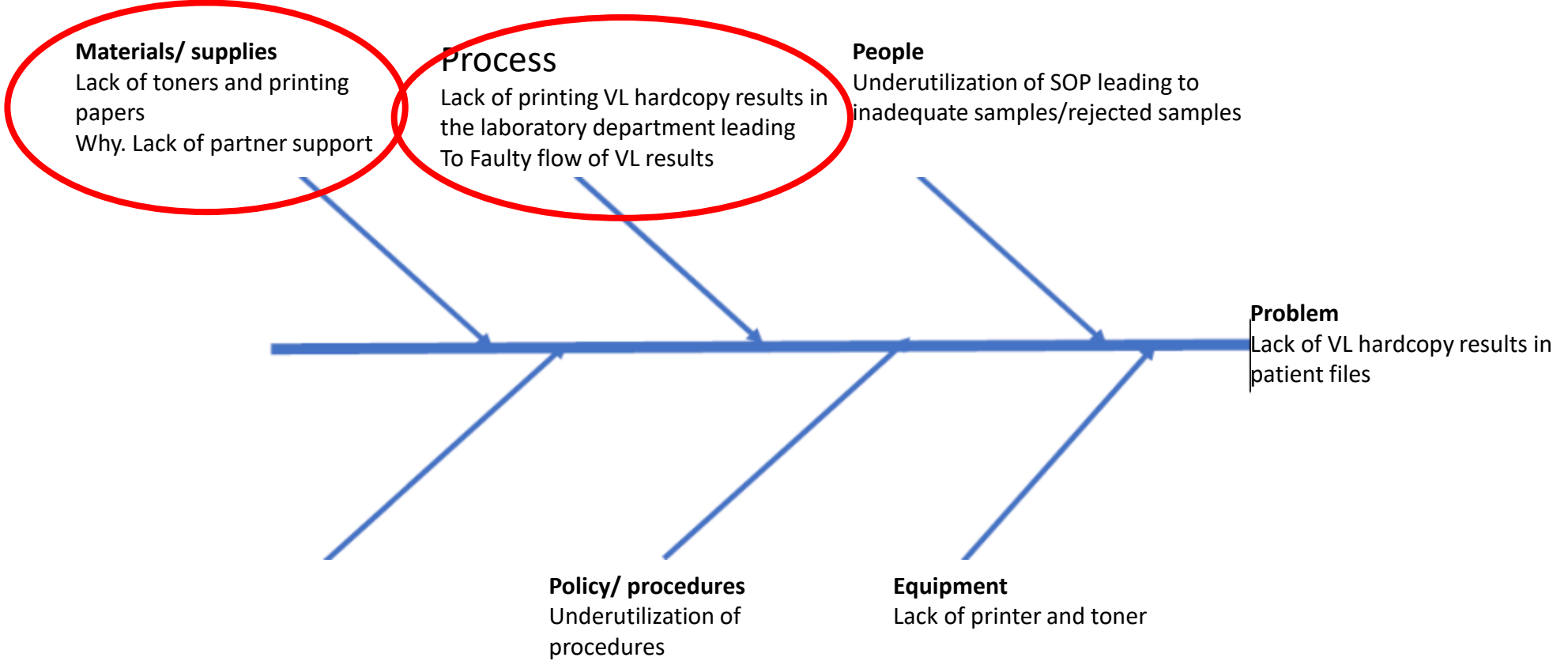
Data points-

- 3 baseline data points
- 6 data points post intervention
- Used sample size table that considered number of ART clients active on care
- 100% of the files were missing hard copy results

Data collected



The image shows a handwritten data collection sheet with multiple columns and rows of text. The text is written in black ink on a white background. The sheet is oriented vertically and appears to be a form or a table. The columns are separated by vertical lines, and the rows are separated by horizontal lines. The text is somewhat blurry and difficult to read, but it appears to be organized into several columns. The first column on the left contains what looks like names or identifiers. The second column contains some numbers or dates. The third and fourth columns contain more text, possibly descriptions or details. The sheet is held in place by two binder rings on the left side.

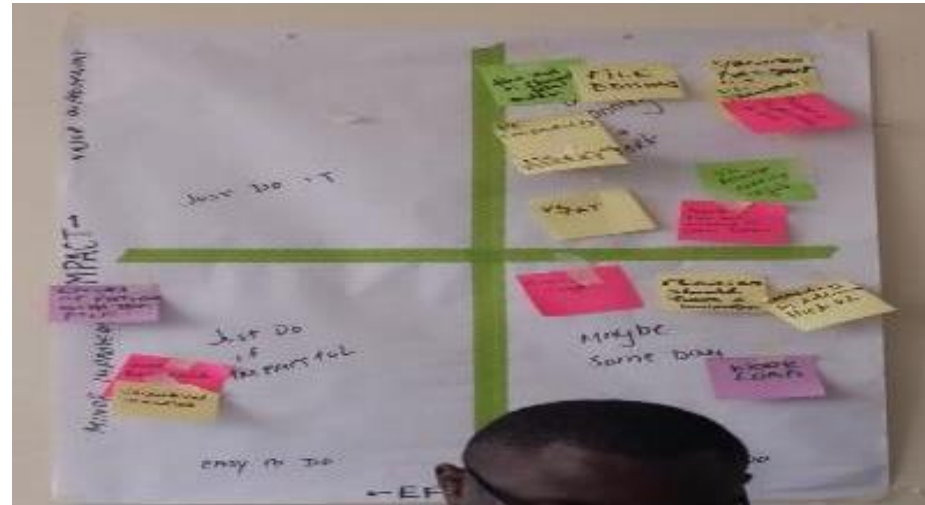




IMPACT / EFFORT GRID A Tool for Prioritizing Opportunities

IMPACT
 Major Improvement
 Minor Improvement

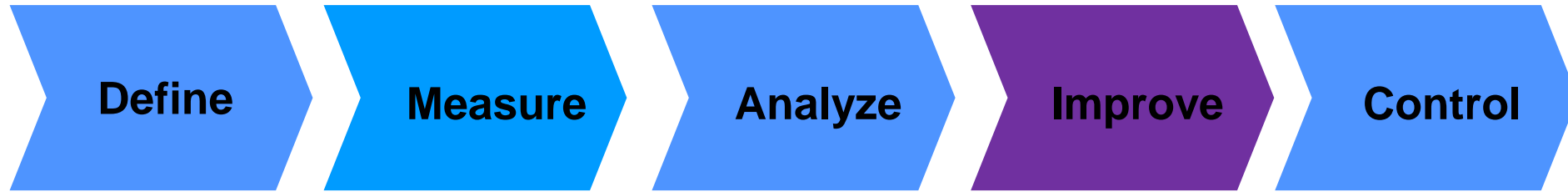
Projects -



Easy to Do

EFFORT

Difficult to Do



- Just Do It

Identified opportunity	Action	By who	When	Status
Viral load protocol not adhered to	Continuous Sensitize clinicians on viral load protocol for unsuppressed patients		24/8/2018	On going
No physical examination of all patients	Physical examination for all patients		24/8/2018	On going
Poor communication of rejected samples	Immediate communication of rejected samples		24/8/2018	On going
Lack of thermometer in triage area	Monitoring Vital signs(Temperature)		27/8/2018	Done



5S - BEFORE

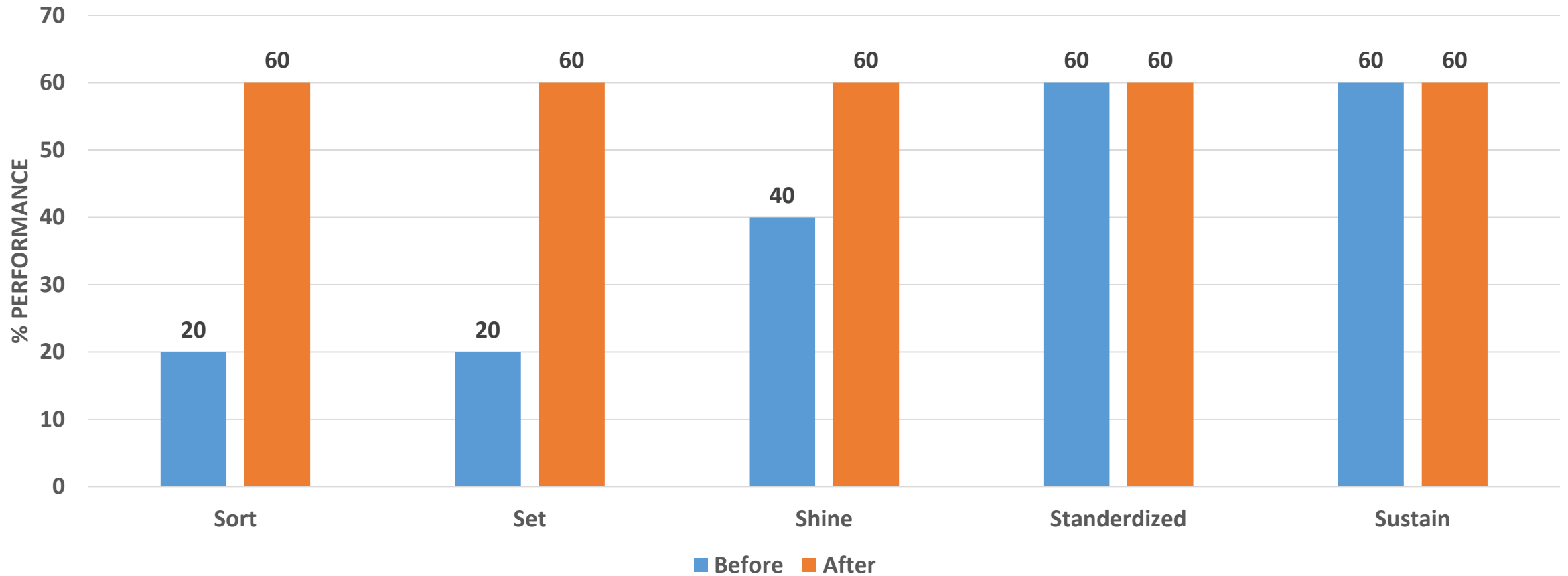


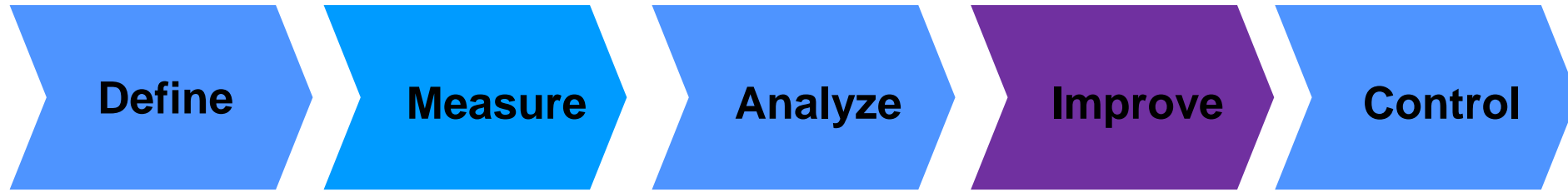
5S - AFTER





5S-Level of Excellence





Visual management

Satellite lab - CCC

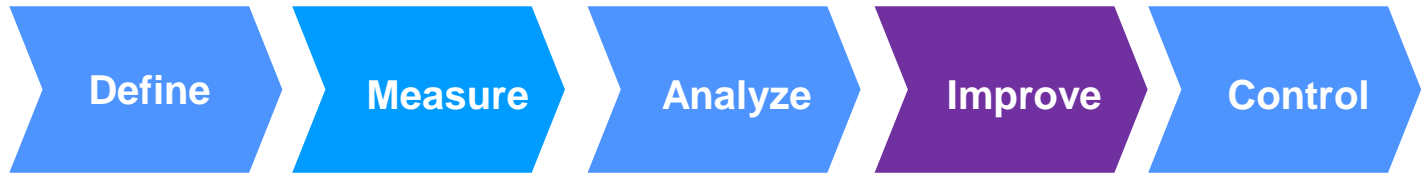


Sample preparation

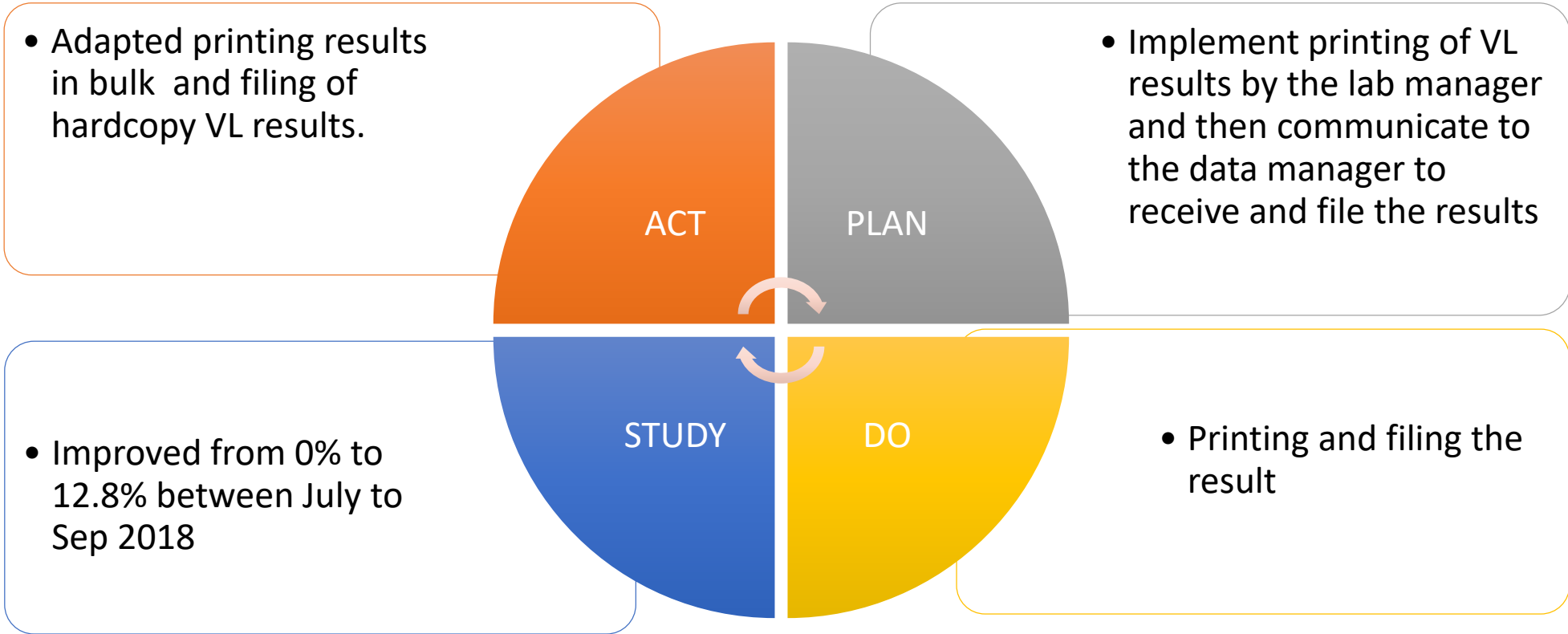


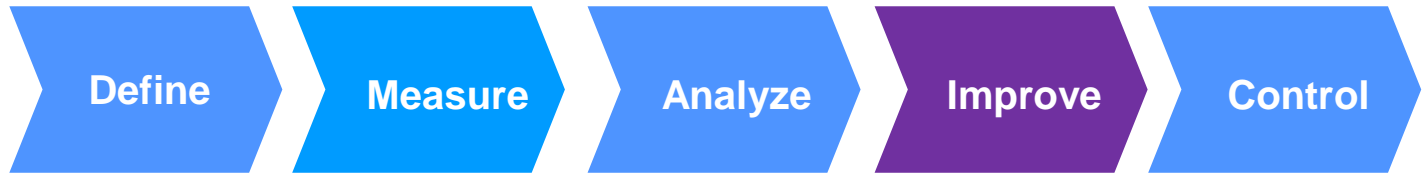
Sample storage



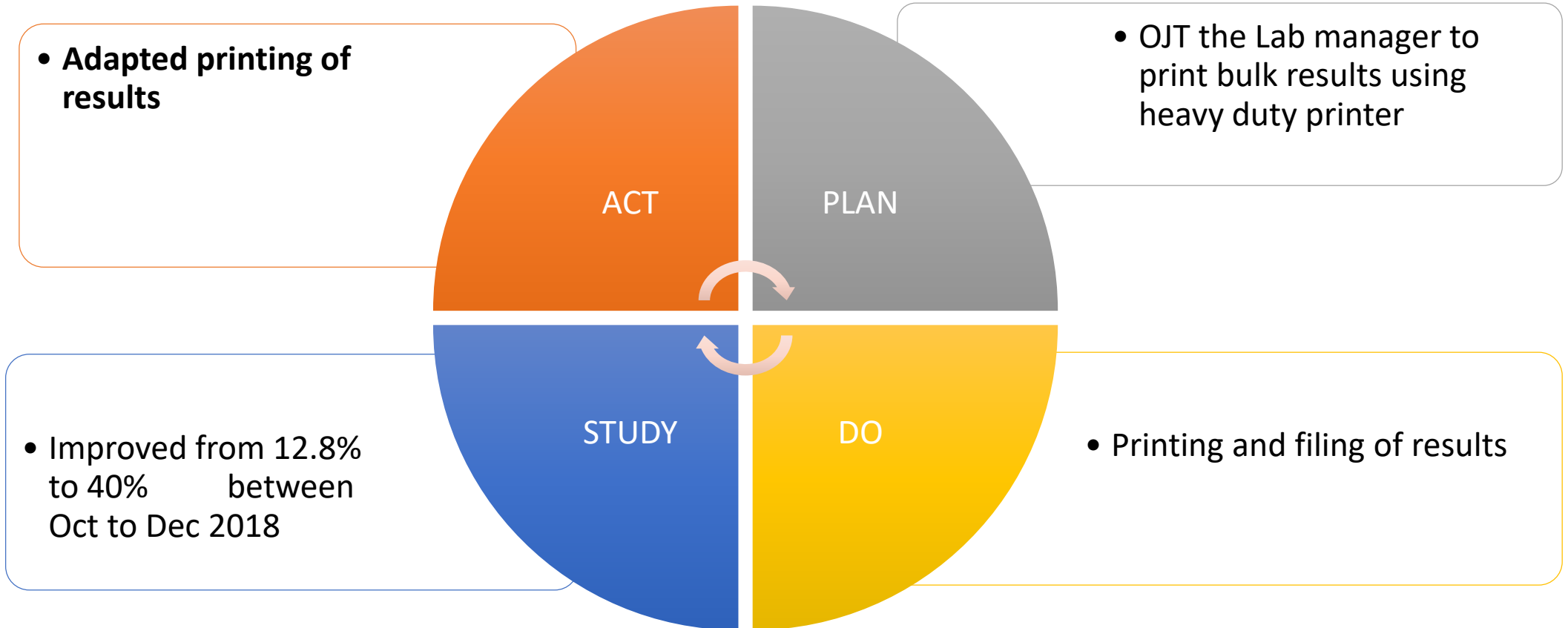


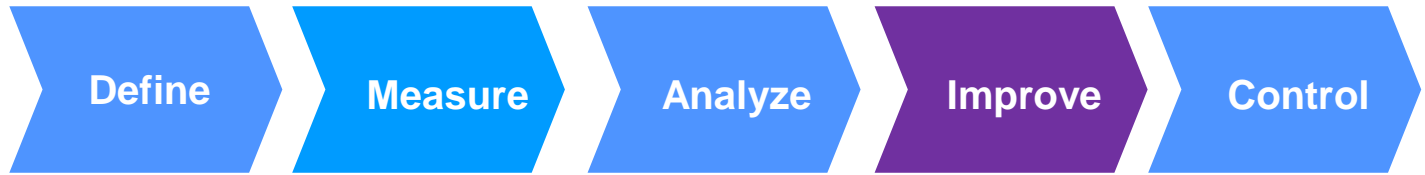
- Small Test of Change (PDSA) 1st



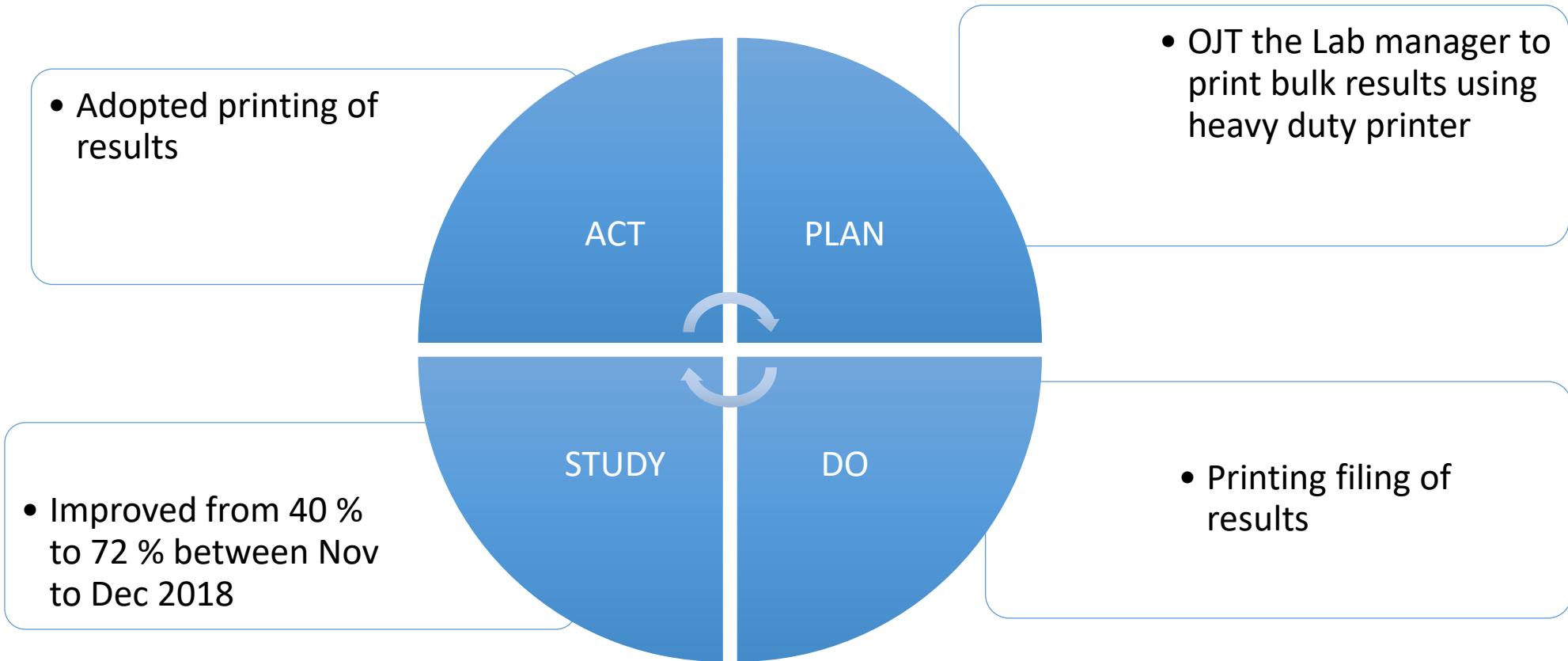


• Small Test of Change (PDSA) 2nd



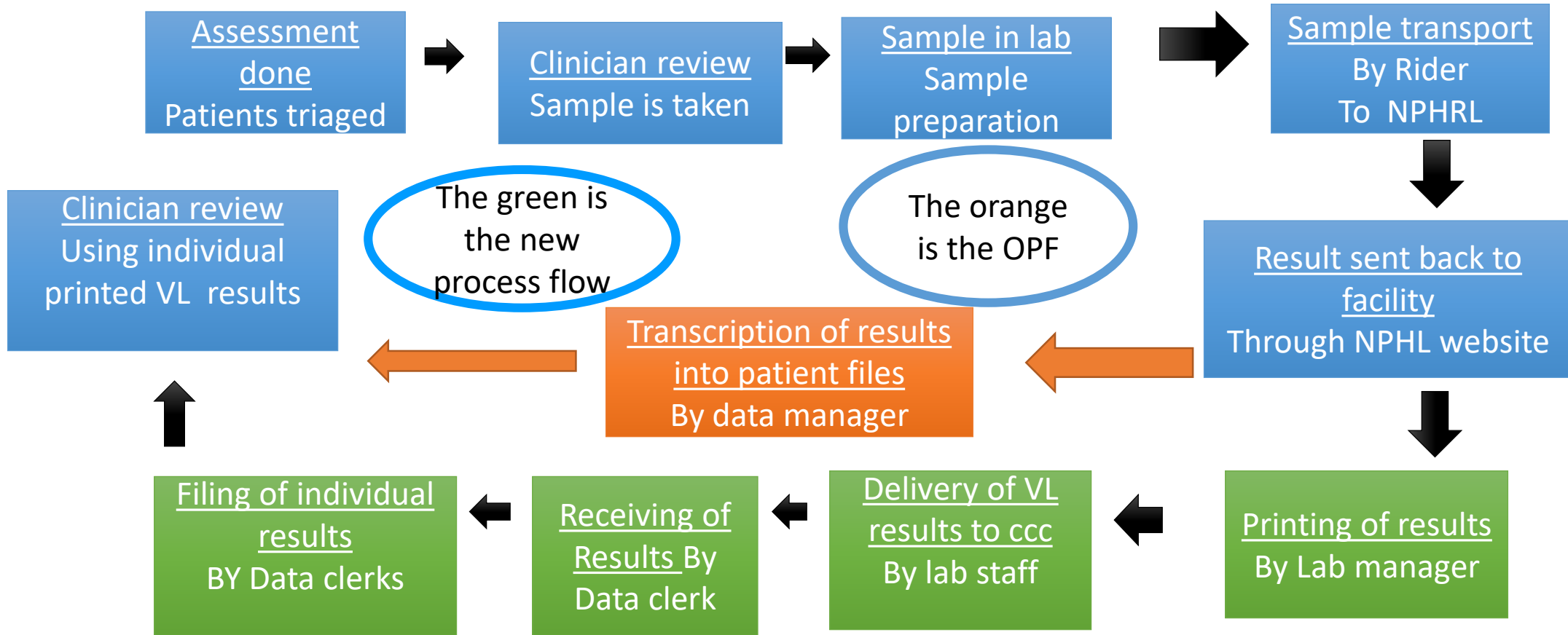


• Small Test of Change (PDSA) 3rd



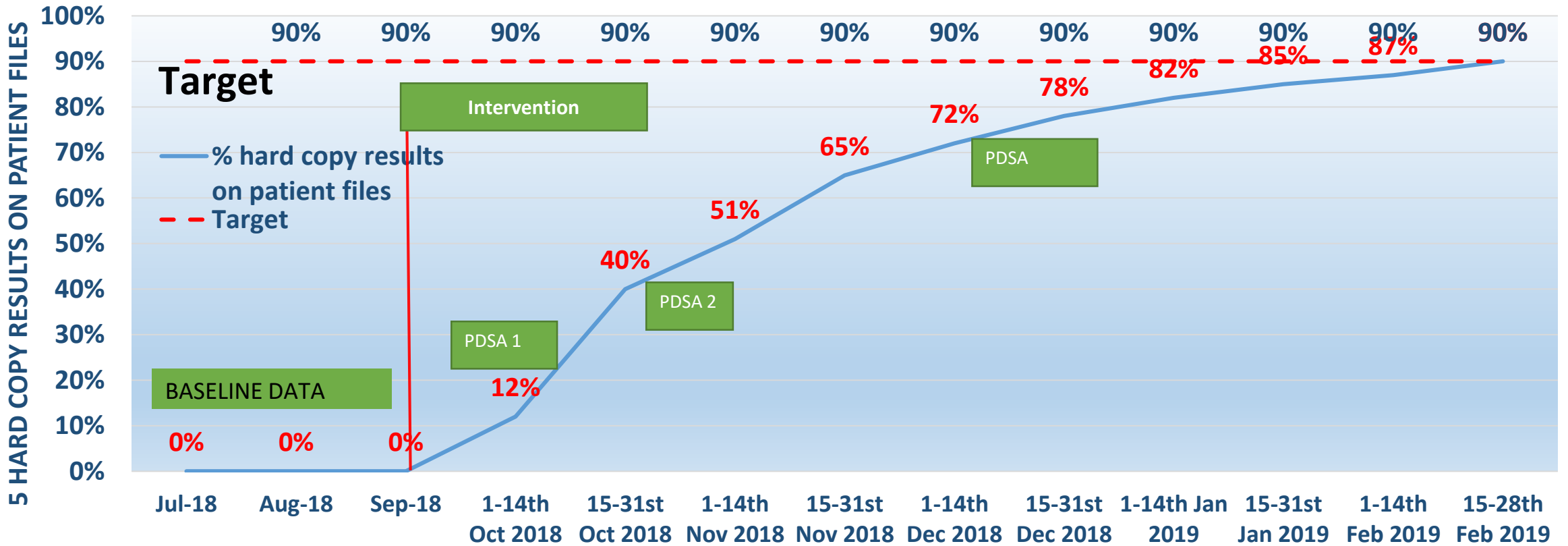


New Process





% HARD COPY RESULTS ON PATIENT FILES



Data collected

DATA THAT HAS BEEN USED TO PLOT LARC QI RUN CHART

PERIOD	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY	
	1 st 2 weeks	Last 2 weeks	1 st 2wks	Last 2 weeks	1 st 2 weeks	Last 2 weeks	1 st 2wks	Last 2 weeks	1 st 2 weeks	Last 2 weeks
PRINTED	287	244	360	343	230	30	45	80	13	9
FILED	34	98	184	222	164	23	36	68	11	8
ACHIEVEMENT IN %	12	40	51	65	72	78	82	85	87	90

Challenges/possible solutions

- Lack of resources-
 - UMB has supported in supplying some of the resources required.
- Competing activities
 - The team has managed to create innovative ways of completing the task e.g. meeting during lunch hours, shortening the duration of the meeting and also ensuring the meeting has an agenda

Lesions learned from VOC1 & 2

- All results are transcribed from the NHRL website
- 27% of the clients were not sure of the transcribed results
- Clinicians don't discuss VL results with clients
- All results are received and printed from the NHRL website
- 5% of the clients were not sure of their results
- 95% of the clients were sure of their results compared to 62% in the VOC 1
- There was improved utilization of v/l results by the clinicians.

Action plan

Identified opportunity	Action	By who	When	Status
Poorly drawn fishbone diagram	More structures added		29/11/2018	done
group photo	Passport photos with individual description		29/11/2018	done
Update run chart	Periodic updating		13/12/2018	ongoing
Identify & eliminate unneeded items	Apply 5s each dept at a time		3/12/2018	ongoing

LARC 2.0 MEETING HELD ON 1/03/2019.

PRESENT MEMBERS



AGENDA:

- To do analysis of voice of customer.

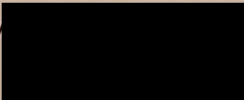
The team sat down and analyzed each question; main target point being Question 5 and 6.

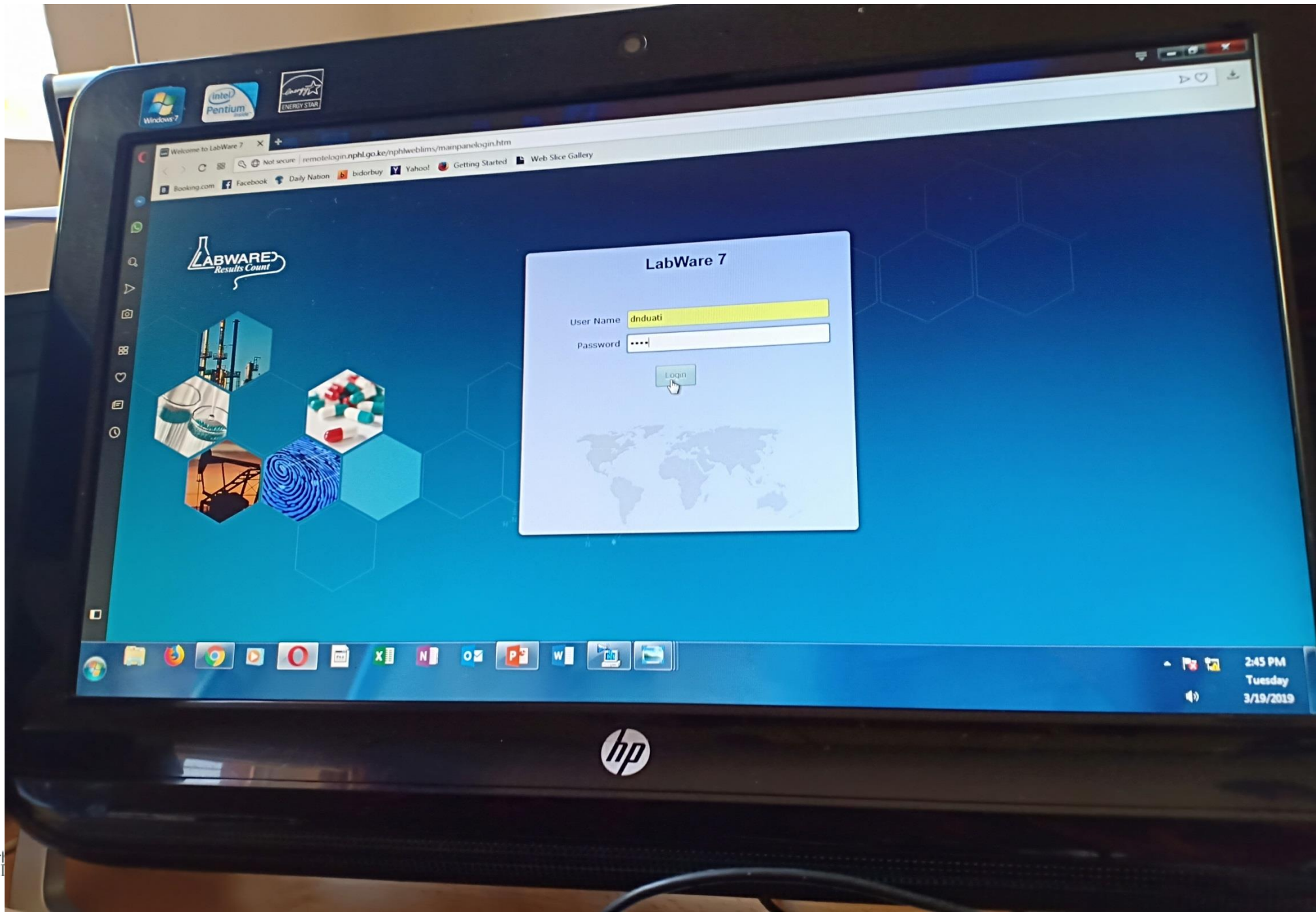
How many had viral load result in their files and if printed copy or hand written. If the client were sure the results belong to them.

The outcome was good, there was a big improvement as per our graph, 95% of clients were sure that the results were theirs and 90% had their results in their files.

The lab manager was tasked to draw graphs and data manager improve the run chart.

There having no other business. The next meeting was to be communicated as we await further communication from site mentors (LARC 3 meeting).

Report compiled by 



Create NEW VIRAL LOAD Shipment

Create a NEW EID Shipment

Log out

- 📷
- 🗄️
- ❤️
- 📅
- 🕒

Date Range
02-NOV-2018 - 19-MAR-2019

VIRAL LOAD WORKFLOW

EARLY INFANT DIAGNOSIS WORKFLOW

REPORTS

Rejections Report

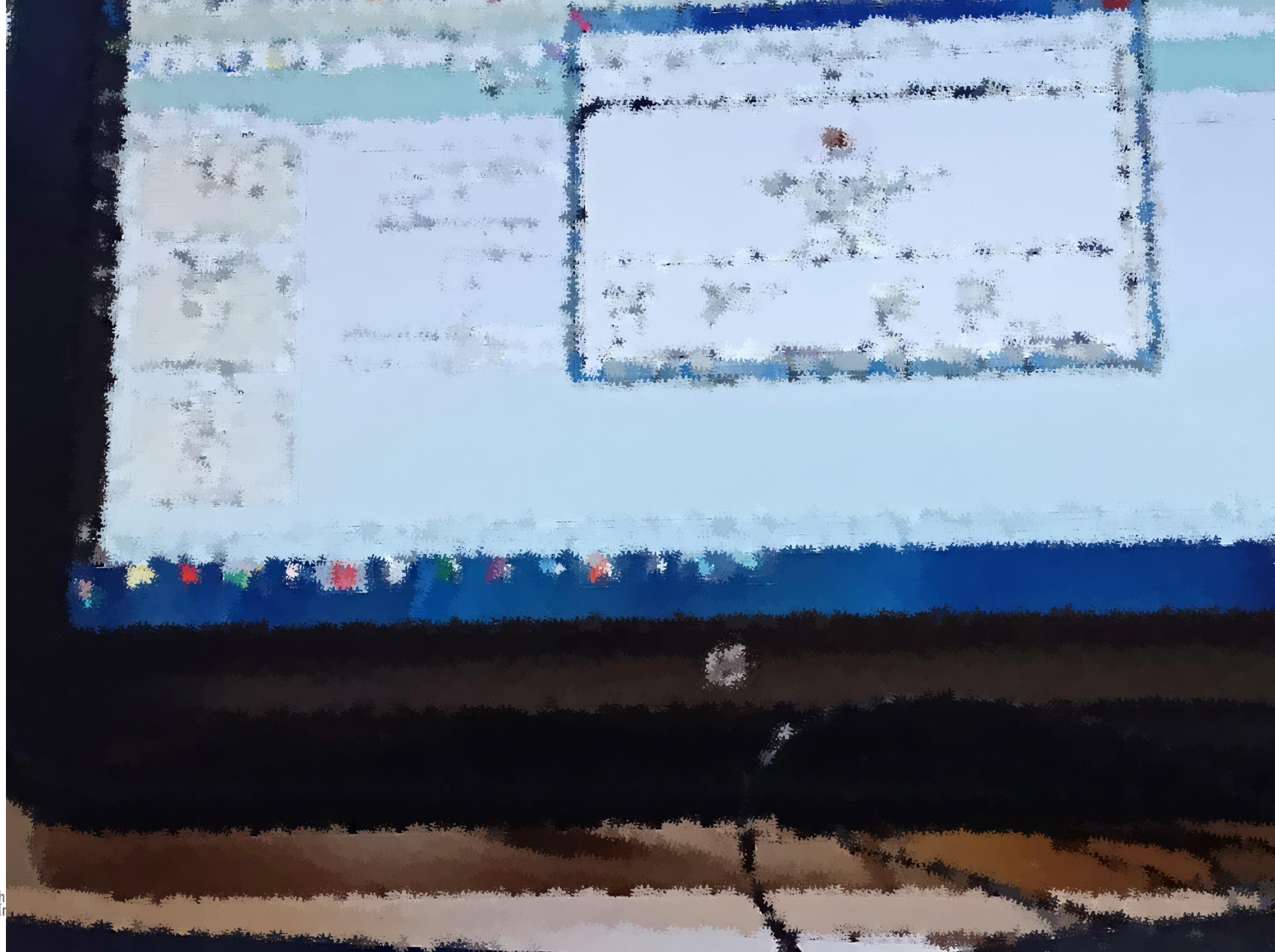
TAT Summary

Shipment ID	No. of Samples	Description	Created By	Status
11094-0003	305	2019	FMUNENE	In-Progress
V-19-11094-0004	246	23rd to 30th jan 2019	FMUNENE	
V-19-11094-0005	327	4th feb to 7th feb 2019	FMUNENE	In-Progress
V-19-11094-0006	320	7th to 13th 2019	FMUNENE	In-Progress
V-19-11094-0007	187	18TH TO 21ST FEB 2019	FMUNENE	In-Progress
V-19-11094-0008	271	19th to 26th feb 2019	FMUNENE	In-Progress
V-19-11094-0009	185	27th feb to 6th mar 2019	FMUNENE	In-Progress
V-19-11094-0010	298	6th to 13th mar 2019	FMUNENE	In-Progress

EID SHIPMENTS

Shipment ID	No. of Samples	Description	Created By	Status
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- 📁
- 🔍
- 🌐
- 📺
- 🔴
- 📄
- 📊
- 📅
- 📧
- 📄
- 📄
- 📄
- 📄



Control Plan

Project Title Viral load cascade

Project Owner: Team Lead

Critical Elements for Quality

Process Step: Is there a critical step that is required for the desired outcome? Is there a vulnerable step that may revert to the “old way” over time? **Printing(including resources for printing) and filling of Viral Load results** –plan for orientation in case of staff turnover on the viral load cascade.

Output: What is critical to the desired outcome or vulnerable in the output? **Filling of printed VL results**

Monitoring over Time

Metric – $\frac{\text{\# of Viral Load hard copy results filed}}{\text{\# of viral load results received from Lab portal}} * 100$

Acceptable Range – Define Upper and Lower limits **(Action Levels. 90-100)**

How measured – Data Collection Plan –**Biweekly**

Control or Reaction Plan

If the metric goes out of range, what will be done? What is the first step?

Analyze the data to get the root cause then redesign PDSA

Accountability

Who is responsible for measuring –**Data Manager**

Where is the measure reported – **LARC Team**

To whom is it reported –**Team lead**

Who is ultimately responsible – **Medical Superintendent**

THANK YOU