



NATIONAL PUBLIC  
HEALTH LABORATORY  
SERVICES

# RT-CQI DATA ANALYSIS & REPORTING SYSTEM USER GUIDE

Rapid  
Testing  
Continuous  
Quality  
Improvement

# SYSTEM DATA INDICATOR REPORTS

## SPI-RT Reports

- **SPI-RT scores comparison per indicator and overall score/level.**
- **Levels comparison across regions/programs for sites assessed.**
- **Pre-certification levels comparison incrementally overtime.**

## Logbook Reports(Comparing Test 1 and Test 2 agreement rates)

- **Positive agreement data(Positive concordance rates)**
- **Overall site agreement rates data**
  - (<95%, 95-98% and >98%) per programmatic area.
  - (<95%, 95-98% and >98%) by geographic region.
- **Chart drilldowns from highest allocated organization unit level to specific sites(SDP).**

## Other data indicators

- invalidity rate,
- Data completeness
- Supervisory signature
- Use of national algorithm
- Register used

# Login screen

Login

1. E-Mail Address

2. Password

Remember Me

3. Login

5. [Forgot Your Password?](#) | [RTCQI HELP DESK](#)

1. Email address field
2. Password field.
3. Login button.
4. Helpdesk link
5. Password reset link

# RT-CQI DATA ANALYTICS SYSTEM DASHBOARD



RT-CQI  
ANALYTICS

Dashboard

REPORTS

Reports

SYSTEM

System Settings

Search for...



3+

Jeff



## Dashboard

Generate Report

Providers Enrolled  
**85.5**



Sites using standardized HTC register  
**69**



Personnel Training & Certification  
**91.4**

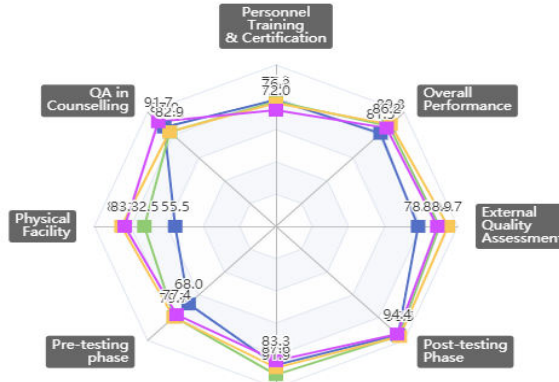


Policy/MOH support  
**34.6**



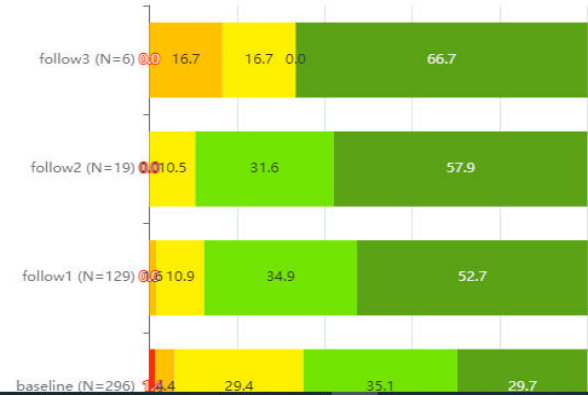
KENYA

baseline follow1 follow2 follow3



KENYA

Level 0 (<40%) Level 1 (50-59%) Level 2 (60-79%) Level 3 (80-89%) Level 4 (>90%)



# RT-CQI System Dashboard overview



RT-CQI  
ANALYTICS

Search for... **Menu sidebar for system** 🔍



duncan



Dashboard

REPORTS

Reports

SYSTEM

System Settings

Dashboard

Dashboard data labels

Dashboard spider & bar chart card

Personal profile menu

External Quality Assessment Follow2  
**92.5**

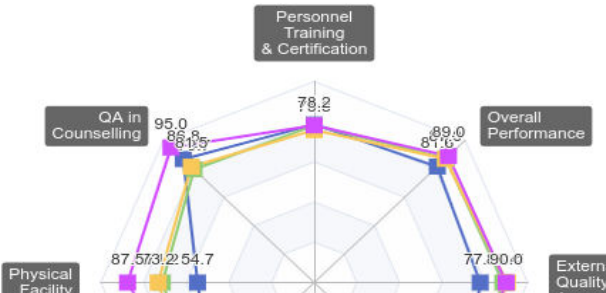
Overall Performance Follow2  
**87.0**

Personnel Training And Certification Follow2  
**90.5**

Physical Facility Follow2  
**95.8**

KENYA

■ baseline ■ follow1 ■ follow2 ■ follow3



KENYA

■ Level 0 (<40%) ■ Level 1 (50-59%) ■ Level 2 (60-79%)  
■ Level 3 (80-89%) ■ Level 4 (>90%)



# Accessing bio information page

Click on your name at the top right corner

1

Click on "My Profile" to view bio info. details

2

The screenshot shows a user profile page for 'duncan'. At the top right, the name 'duncan' and a profile picture are circled in red. A red line with the number '1' points to this area. Below the name, a dropdown menu is open, showing options: 'My Profile', 'Settings', 'Activity Log', and 'Logout'. 'My Profile' is circled in red, and a red line with the number '2' points to it. The main content area features two cards: 'Personell Training And Certification Follow2 90.5' and 'Physical Fac Follow2 95.8'. A red notification bubble with '3+' is visible above the name.

# Profile page



duncan

duncanndiithi@gmail.com

## My Profile

Name \*

duncan

Last Name

towers

Email \*

duncanndiithi@gmail.com

Password

\*\*\*\*\*

Show password

Update Profile

☆☆ Role

super admin

## Organisation units

☆☆ Kenya

- You can update your
1. Profile names
  2. Email
  3. Password

# Organization units (County & Sub County) management

RT-CQI ANALYTICS

Search for...

Jeff

## Organisation Unit Management

1

2

Admin Access only

Upload County sub-orgunits Delete all orgunit

#	Org Unit Name	Org Level	Last Updated	Action
1	Kenya	1	2021-07-08	
2	Bungoma	2	2021-07-08	
3	Busia	2	2021-07-08	
4	Homa Bay	2	2021-07-08	
5	Kakamega	2	2021-07-08	
6	Kdf	2	2021-09-17	
7	Kisii	2	2021-09-16	

# Reports : Tabular View

**RT-CQI ANALYTICS**

Dashboard

REPORTS


Reports

REPORTS:

- Log book ← 1
- SPI-RT

SYSTEM

System Settings

Search for... 

2 ↓

3 ↓

4 ↓

5 ↓

6 ↓

1. under reports choose the data you want to view,
2. Select the indicator of interest ,
3. Select the organization unit (County, Sub-county, facility or site ) whose performance you wish to view,
- 4 . Select the time line (Baseline, followUp1, followUp2 etc)
5. Select the program of interest.( PMTCT, LAB etc)
6. Then click the blue "Filter" button.

Average Performance per QA element

Download a csv summary  [Csv](#)

 [PDF](#) Download a pdf doc of the summary

	Personnel Training & Certification	QA in Counselling	Physical Facility	Pre-testing Safety	Pre-testing phase	Testing Phase	Post-testing Phase	External Quality Assessment	Overall Performance
KENYA									
baseline	74	54	93	82	67	77	85	88	80
follow1	83	70	94	79	72	77	90	93	85
follow2	92	83	97	88	79	78	92	94	91

# Reports : Selection of sites to view data analysis

Select Organisation Unit

- Kenya
  - Bungoma
    - Webuye west
      - 16061\_Webuye Hospital
        - Laboratory
        - OPD\_1
        - VCT\_1
        - VCT\_2
        - PMTCT\_MCH
        - CCC
        - IPD\_Peadiatric

Close

Name

Start date

mm/dd/yy

End date

mm/dd/yy



Choose the county, sub-county, facility or site to view its performance.  
Once selected click the "Close" button...then click the filter button

Performance Spider

Csv

PDF

Safety	Pre-testing phase	Testing Phase	Post-testing Phase	External Quality Assessment	Overall Performance
36.8	68.1	78.6	86.3	91.2	81.6
79.7	76.3	78.1	91.7	96.0	87.3

# Reports :Program Selection

Organisation unit  Select Timeline  Select Programme  Start date  End date

Tables | Site Level Columns | Average Performance per QA element

**Average Performance per QA element**

Personnel Training & Certification	QA in Counselling	Pre-testing phase	Testing Phase	Post-testing Phase	External Quality Assessment	Overall Performance
---						

**Select Programme**

- PMTCT ✓
- VCT
- OPD
- LAB ✓
- PITC
- IPD ✓
- VMMC
- PSC/CCC
- PEDIATRIC

Order

You can choose a single program or multiple programs to view on the same window and compare their performance.

# Reports :HTS data Register Indicators

RT-CQI ANALYTICS

Search for...

Logbook REPORT: Site agreement Rates

Select Indicator ▾

- Site agreement Rates
- Positive concordance rate
- Completeness rate
- Consistency rate
- Invalid rate
- Supervisory Signature rate
- Algorithm Followed rate
- Sites using eHTS register

Organisation unit ▾

Select Programme ▾

Start date

End date

Filter

Reset

Csv

PDF

<95% 95-98% >98%

Month	<95%	95-98%	>98%
June 2021 (N=62)	0.0	1.6	98.4
July 2021 (N=223)	3.1	2.7	94.2
August 2021 (N=139)	1.4	2.2	96.4
September 2021 (N=21)	9.5	0.0	90.5

Site agreement Rate Chart

KENYA

% agreement rates

<95% 95%-98% >98%

100%

80%

60%

40%

20%

0%

Jun 2021 (N=62)

Jul 2021 (N=223)

Aug 2021 (N=139)

Sep 2021 (N=21)

98.4

94.2

96.4

90.5

0.0

1.6

3.1

2.7

2.6

0.9

9.5

0.0

Bar graph reflecting the same

(N) Number of sites from which data has been abstracted

These are percentages

# Reports :Program Agreement rates selection

REPORTS:  
Log book  
SPI-RT

Data View

Site agreement Rates

Csv

PDF

Site agreement Rate Chart

Click here to download chart

Programme <95% 95%-98% >98%

KENYA

June 2021 (N=44)	OPD	0.0	0.0	100.0
July 2021 (N=113)	OPD	1.8	4.4	93.8
August 2021 (N=69)	OPD	0.0	2.9	97.1
September 2021 (N=7)	OPD	28.6	0.0	71.4

KENYA

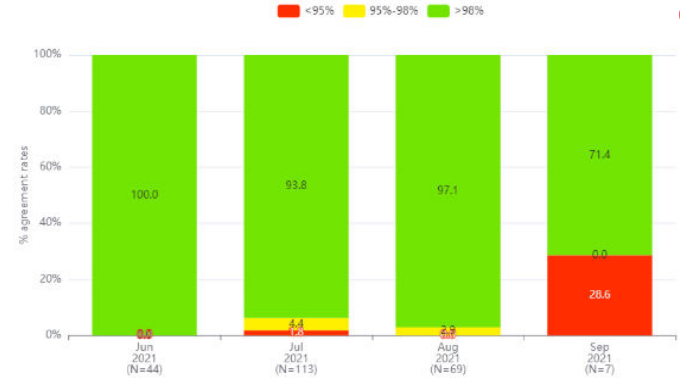
June 2021 (N=5)	VCT	0.0	0.0	100.0
July 2021 (N=33)	VCT	3.0	3.0	93.9
August 2021 (N=8)	VCT	12.5	0.0	87.5
September 2021 (N=7)	VCT	0.0	0.0	100.0

KENYA

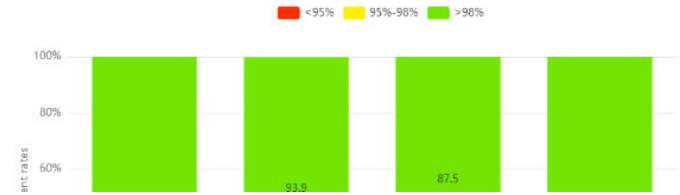
June 2021 (N=7)	PMTCT	0.0	0.0	100.0
July 2021 (N=30)	PMTCT	3.3	0.0	96.7
August 2021 (N=25)	PMTCT	4.0	0.0	96.0
September 2021 (N=2)	PMTCT	0.0	0.0	100.0

Graphical representation of the data

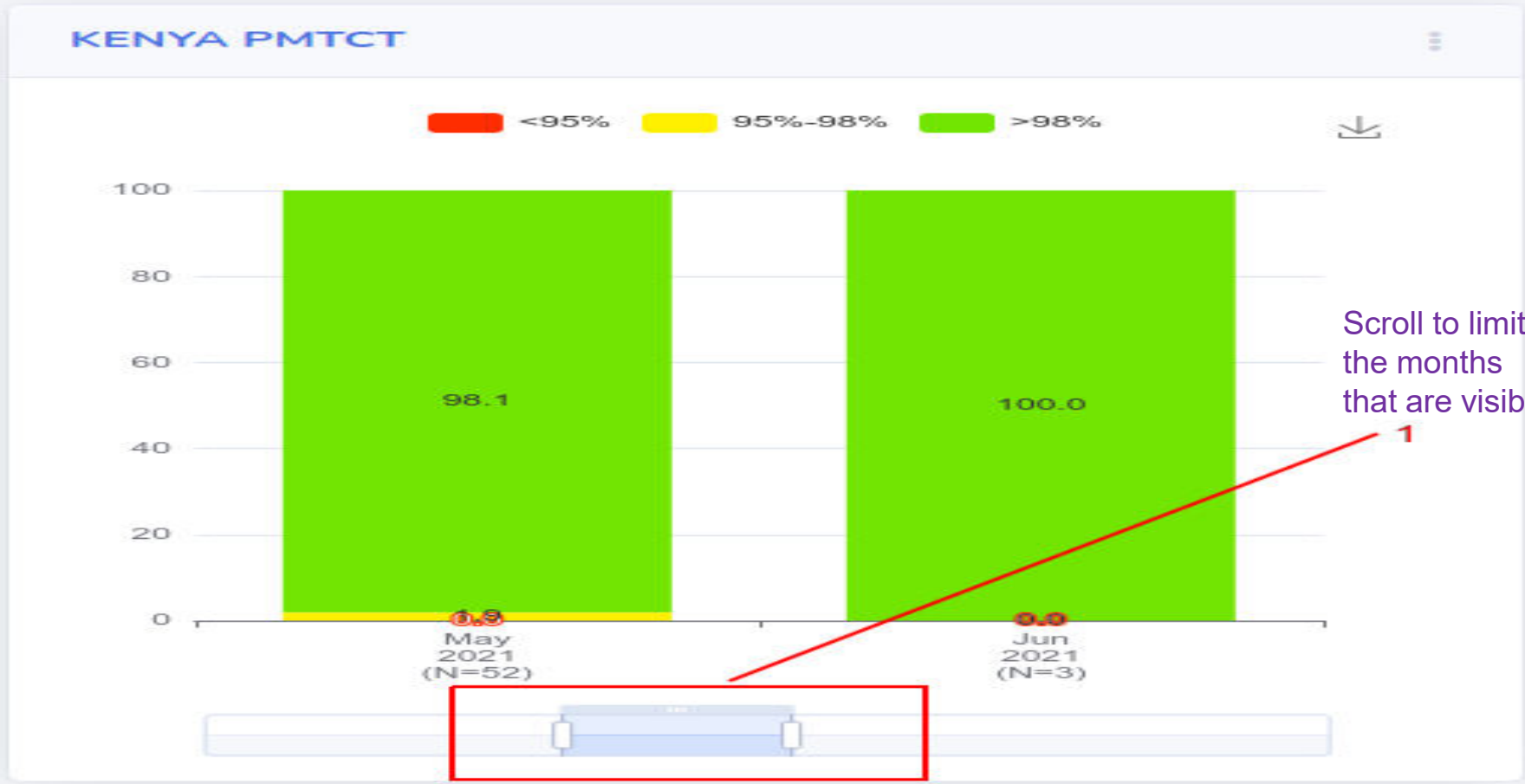
KENYA OPD



KENYA VCT



# Agreement rates selection- select months to view





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# EXPLAINING THE SYSTEM DATA VARIABLES

Presenter  
Geoffrey Bundi

# DATA ANALYTICS

- » Agreement between Test 1 and Test 2 over a period of time (e.g. monthly) should be at least 98%
- » High levels of discordance indicates potential problems in
  - Test kit quality
  - Tester Performance
  - Inappropriate testing algorithm

Page book summaries should be filled accurately in order to assess concordance data

# ALGORITHM FOLLOWED


- Kits used not in the national algorithm
- A wrong sequence of test kits used
- Confirmation of Test 1 Reactive NOT Done
- Test 2 done when Test 1 was Non-Reactive

# DATA COMPLETENESS

No gaps or missing information,

- Kits used names indicated
- Kit Lot numbers, expiry dates available,
- Kits consumption summary data available

# Agreement rate calculation


$$\text{Agreement rate} = \frac{\text{Total non-reactive by T1} + \text{Total reactive by T2}}{\text{Total non-reactive by T1} + \text{Total reactive by T1}} \times 100$$

# INVALIDITY RATE

Number of invalid results for Test 1  
/  
Total Test 1 done

# Prepared By.

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