



# M&E of ART Program Using Laboratory Based Data Dashboards & Results for Action (RfA) Reports

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## HIV Programme M&E Dashboards

### 1. Geographic Distribution

[Calendar View](#) | [Fiscal View](#)



### 2. Integrated DHIS & NHL S

[Calendar View](#) | [Fiscal View](#)



### 3. Trends to Facility Level

[Rolling 12 Months View](#)



## Downloads

Click on links below to get exportable Excel and/or pdf documents

### 1. Geographic Distribution

- ..... [CD4 by Province \(pdf\)](#) )
- ..... [CD4 by District \(pdf\)](#) )
- ..... [VL by Province \(pdf\)](#) )
- ..... [VL by District \(pdf\)](#) )

### 2. Integrated DHIS & NHL S

- ..... [National \(Excel ,pdf\)](#) )
- ..... [Provincial \(Excel pdf\)](#) )

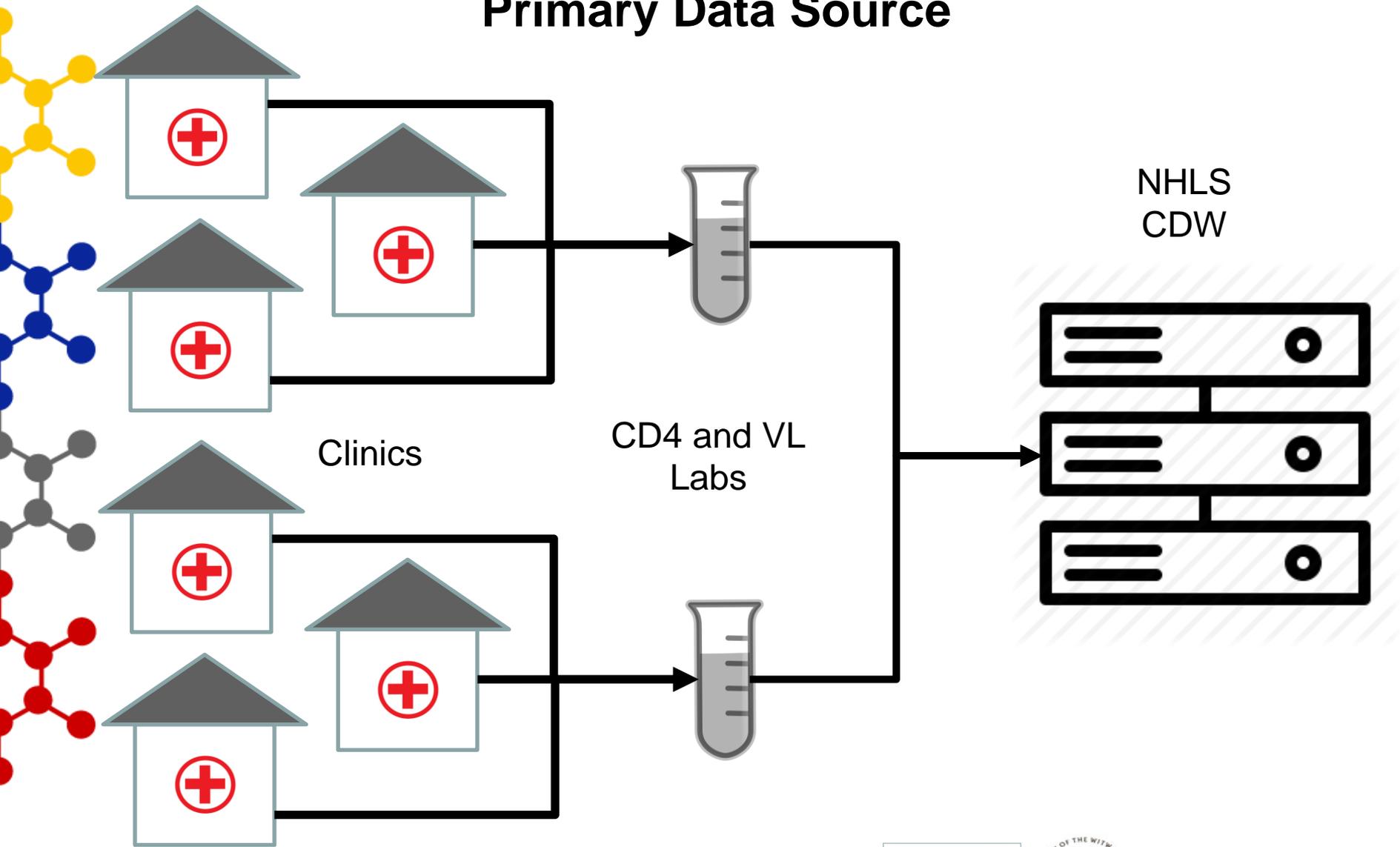
### 3. Trends to Facility Level

- ..... [By District \(Excel ,pdf\)](#) )
- ..... [By Sub District \(Excel ,pdf\)](#) )
- ..... [By Facility \(Excel ,pdf\)](#) )



## HIV M&E Metric Definitions

# Primary Data Source



# Data Analysis and Interpretation - Dashboard

NHLS BI > Shared Reports > 02 CCMT M&E > [ ... ] > DSB00001/09 - Trends to Facility Level (Adults)

Facility Indicators & Trends | Sub District Indicators & Trends | District Indicators & Trends



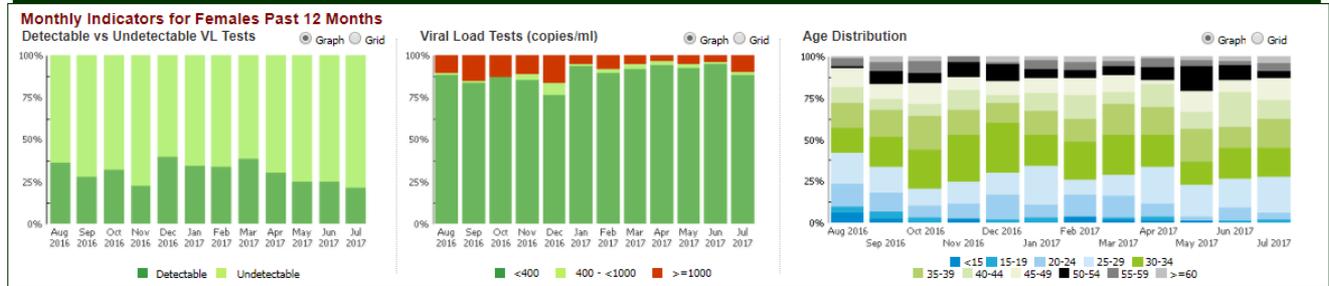
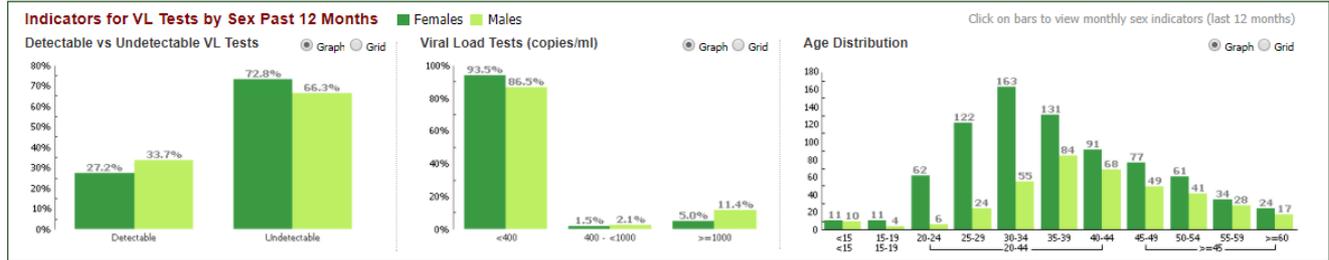
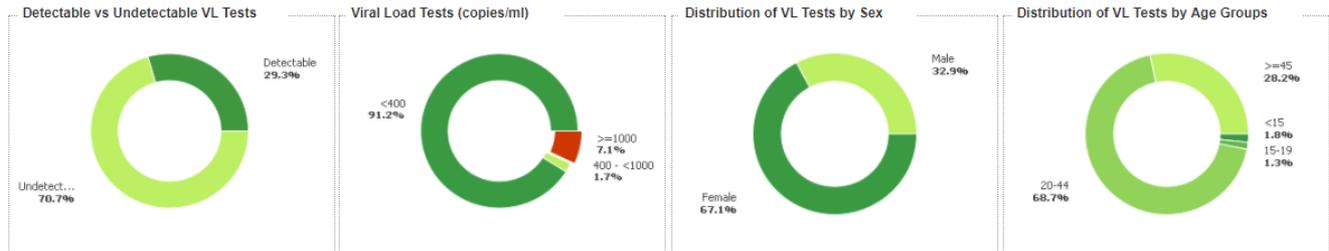
## HIV M&E Facility Indicators and Trends (All Ages)



Select Province: Free State | District: Thabo Mofutsan... | Sub District: Dihlabeng | Facility: Bethlehem Clinic | Test Category: VL

### VL Testing in Bethlehem Clinic Aug 2016 - Jul 2017

Indicators Past 12 Months (Total # Tests - 1,173)



# Data Analysis and Interpretation - HIV PCR RfA report

Copy of RPT01002 - HIV PCR RfA Report (Excel) - Facility. Chris Hani Baragwanath Hosp - Microsoft Excel non-commercial use

File Home Insert Page Layout Formulas Data Review View

C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
Sub District	Facility	Ward	Folder No	Patient Surname	Patient Name	Patient DOB	Sex	Patient Address	Patient Tel No	Patient Age	Taken Date	Reviewed Date	Episode No	CDW Patient Identifier	RTHB No	HIV PCR Result	Total No. of Previous HIV PCR Tests
Johannesburg D	Chris Hani Baragwanath Hosp	Labour Ward	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	M			1 day	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Positive	
Johannesburg D	Chris Hani Baragwanath Hosp	Ward 19	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	M			2 months 15 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Positive	
Johannesburg D	Chris Hani Baragwanath Hosp	Ward 19	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	M	NS		7 months 5 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Positive	2
Johannesburg D	Chris Hani Baragwanath Hosp	Ward 19	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	F			3 months 10 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Positive	
Johannesburg D	Chris Hani Baragwanath Hosp	Ward 23	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	F			23 years 26 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Positive	
Johannesburg D	Chris Hani Baragwanath Hosp	Ward 36	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	M			2 months 13 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Positive	
Johannesburg D	Chris Hani Baragwanath Hosp	Antenatal Clinic	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	F			21 years 15 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Indeterminate	
Johannesburg D	Chris Hani Baragwanath Hosp	Haematology Clinic	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	F			57 years 9 months 9 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Indeterminate	
Johannesburg D	Chris Hani Baragwanath Hosp	Labour Ward	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	U	NS		Unknown	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Indeterminate	
Johannesburg D	Chris Hani Baragwanath Hosp	Renal Unit	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	F	NS		20 years 3 months 13 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Indeterminate	
Johannesburg D	Chris Hani Baragwanath Hosp	Ward 18	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	M			5 months 13 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Indeterminate	
Johannesburg D	Chris Hani Baragwanath Hosp	Ward 33	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	M			8 months 2 days	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Indeterminate	
Johannesburg D	Chris Hani Baragwanath Hosp	Labour Ward	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	F			1 day	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Specimen not received	
Johannesburg D	Chris Hani Baragwanath Hosp	Unknown	GTxxxxxxxx	xxxxxx	xxxxx	dd-mmm-yyyy	F			1 day	dd-mmm-yyyy	dd-mmm-yyyy	HGxxxxxxxx	xxxxxxxxxx		Specimen not received	

Terms & Conditions Cover Page HIV PCR Results for Action HIV PCR Negative Results Previous HIV PCR Tests



## What is the Self-Service Portal?

The Self Service Portal allows online registration of users to access Monitoring and Evaluation Reports for the purpose of improving outcomes in South Africa's Health Programs.

For the Health Programs in which they operate, users can register to receive

- 1) M&E Reports regularly distributed via email and/or
- 2) Online M&E Dashboards

### New Users

NEW USER REGISTRATION

#### IMPORTANT:

After completing the "New User Registration", use the buttons on the right to select "ADD REPORT DISTRIBUTIONS" or "ADD ONLINE REPORTS".

### Existing Users

ADD REPORT DISTRIBUTIONS

ADD ONLINE REPORTS

MY PROFILE

# Users registered on the HIV M&E self-service portal for the dashboard and RfA reports per organisation

	DoH	Partners	Other	Total
HIV M&E online dashboard	325	157	103	585
HIV VL RfA report (all ages)	295	94	49	438
HIV PCR RfA report	251	71	33	355
HIV VL&CD4 RfA report (<19yrs)	133	41	15	189

\*Data correct as of 28 Aug 2017



# RfA reports distributed weekly at a provincial, district and facility level

	Province	District	Facility	Total
HIV VL RfA report (all ages)	-	274	462	736
HIV PCR RfA report	22	207	356	585
HIV VL&CD4 RfA report (<19yrs)	-	107	189	296

\*Data correct as of 28 Aug 2017



# Data Quality

1. No unique patient identification number is associated with the NHLS lab tests
  - Probabilistic patient level linking based on demographic information
2. NHLS and NDoH keep separate databases of facilities with different names and facility codes
  - Linking database that links more than 90% of facilities and 95% of HIV patients in South Africa

# How are the Dashboard and RfAs being used for rational decision making?

- Compile reports and triangulate against TIER.Net results
- Clinicians use VL report to identify patients with virological failure receive appropriate follow-up
- Paediatricians are using the HIV PCR RfA as a way of tracing HIV PCR(+) neonates at birth
  - Babies are born and tested in one facility but discharged prior to the PCR result becoming available and followed up in a totally different facility.
  - Trace infants with indeterminate tests or tests that were not resulted (e.g. insufficient sample, mislabeled, etc.) for follow-up testing



# Lesson 1: Develop for Long-term

- Develop a partnership
  - Leverage and build in-house expertise
  - Promote institutional ownership



**IF YOU BUILD IT,  
THEY WILL COME.**



# Conclusion

- Side benefit has been the creation of a new research resource
- Dashboards and RfA are just a start
  - Additional analyses forthcoming
  - Requests from the field for additional dashboard information and reports



# Take Away Message and Next Steps

- Don't let “perfect” become the enemy of “good”
  - Couldn't wait for the perfect patient linking algorithm
  - The dashboards still provide lots of useful information
- Next steps
  - Evaluation how the tools are being used
  - Update dashboards
  - Continuous improvement

