TIER.Net

Reports Manual

Version 1.8

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CIDER

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How to use this guide

This guide includes information about all the reports available in TIER.Net.

There are two modules in TIER.Net namely HIV and TB. At time of print the TB module was not implemented in all districts so is therefore disabled by default. The TB module will be activated by a password when your district implements the TB module. The sub-modules of the HIV module are HCT, Pre-ART and ART.

In this manual the reports fall into two categories, namely **operational/management reports** and **routine monitoring reports.** Operational or management reports are designed to support facility, sub-district and district managers to help manage the HIV and TB programmes from an operational standpoint.
Routine monitoring reports are standard reports which fulfil the monthly and quarterly indicators required by the national Department of Health.

As the user of this manual, it is up to you to decide which reports are applicable to your role according to ART M&E SOP or requirements of your Health Department.

Please see **Table 1**: **Reports Summary on page 5** to see a description of the reports and which are applicable to your role.

Note: *The information displayed in the sample reports in this manual are made up of dummy data and names. All patient names are not real and only used as examples for interpretation and understanding.*

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1 Reports Summary & Definitions of terms

1.1 Summary Guide and Definitions

Table 1: A quick Reference guide for TIER.Net reports – Please refer to ART M&E SOP for information on who should extract the reports and what action should be taken

Report	Module	Report Type	When to generate	Content
HCT Report	HCT	Operational/Management	Quarterly	Aggregate report of total patients who have received HIV counselling and testing and the test results; Monthly breakdown per user-specified time period
Patient Appointment List	Pre-ART and ART	Operational/Management	Daily	List of all the patients who have an appointment on a user-specified day
Transferred Out Report	Pre-ART and ART	Operational/Management	Beginning of every month	List of all the patients transferred out from the selected facility to other facilities for HIV or ARV care
Waiting List for ART report	Pre-ART	Operational/Management	Beginning of every month	Listing of HIV+ patients not on ART who are eligible for treatment, broken down into those being "worked up" and those not being "worked up" for ART initiation
Quarterly ART report	ART	Routine Monitoring	Quarterly /Yearly	Quarterly/yearly cohort outcomes for ART patients
Early Missed Appointment	Pre-ART and ART	Operational/Management	Weekly	List of patients needing to be called/visited at home to prevent losing patients to care and treatment and minimising poor adherence
Late Missed Appointment	Pre-ART and ART	Operational/Management	Monthly	List of patients who need a home visit to avert losing patients to care and treatment services
Unconfirmed defaulter	Pre-ART and ART	Operational/Management	Monthly	List of patients not having visit or drugs in hand for 90 days or more *NOTE: Patients already captured as LTF will not be on this list*
Monthly report	Pre-ART and ART	Operational/Management and Routine Monitoring	Monthly	Key monthly indicators such as newly enrolled patients, transfers, remaining in care, pregnancy and IPT for ART and Pre-ART patients

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Monthly Club Report	Pre-ART and ART	Operational/Management and Routine Monitoring	Monthly	Newly enrolled patients in a club and total remaining in care in clubs at the end of the month
Multi Facility Club Report	Pre-ART and ART	Operational/Management	Monthly	No. of clubs, total new patient enrolments per facility and totally retained in care in clubs per facility
Two Consecutive unsuppressed Viral load Report	ART	Operational/Management	Monthly	List of patients whose last 2 consecutive viral loads were unsuppressed
Illustration Report	ART	Routine Monitoring	Quarterly	Graphs showing temporal trends in enrolment, retention and quarterly ART cohort outcomes (RIC, LTF, RIP, TFO and defaulters)
TB Outcome Report	TB	Routine Monitoring	Quarterly	Aggregate outcomes of all TB patients, according to type of TB and HIV/ART status at diagnosis, by quarter
TB Missed Appointment (1 to 2 weeks and 2 to 3 weeks ago)	TB	Operational/Management	Every Friday	List of patients needing to be recalled to prevent LTF; Reports list patients who were 1 to 2 weeks late or between 2 to 3 weeks late for a scheduled appointment
TB Defaulter Report	TB	Operational/Management	Monthly	List of patients not having visit or drugs in hand for 2 months or more. NOTE: Patients with no next appointment date will not be on this list.
Conversion Sputa Still Required	TB	Operational/Management	Monthly	Shows all DS (drug sensitive) TB patients requiring conversion sputa results, irrespective of sputum result at diagnosis
Discharge Sputa Still Required	TB	Operational/Management	Monthly	Shows all DS (drug sensitive) TB patients requiring discharge sputa results, irrespective if diagnosis and conversion sputa.
Workload Report	Staff management	Operational/Management	Beginning of every month	This report is an aid for the facility manager to help with staff allocation and management. Does not show any user names at sub-district or district levels as user data not included in dispatch.
User Access Report	Staff management	Operational/Management	Beginning of every month	The User Access report shows a list of user accounts (implementers, administrators and users) with the last log in date, activation status, as well as the time and date that each person logged on or logged off from the system.

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1.2 Definitions of Terms

TERM	DEFINITION
Admin Clerk / Data Capturer/ Data Clerk	Person responsible for capturing data into TIER.Net and according to context responsible for additional clerical duties such as pulling folders, filing laboratory test results and generating routine facility data
ART	Antiretroviral therapy
ART care	This refers to all aspects of ARV treatment
ARV	Antiretroviral
Clinical eligibility (pre-ART)	People eligible to begin ART according to ART guidelines in use (WHO Stage, CD4 count, age, pregnancy and/or TB)
Clinical Visit	A consultation between a patient and clinician including a clinical assessment. Clinical visits imply that a patient has been seen by a qualified nurse or doctor. These do not include drug pick-ups from pharmacy, counselling or club sessions.
Club	A club is a group of patients who receive medication in or out of the facility, in group sessions. This model of care decongests the health facilities and alleviates burden on clinicians, pharmacies and patients. Clubs can either be ART clubs where long term adherent ART patients are seen and receive medication or pre-ART (wellness clubs) where patients are seen and receive IPT or cotrimoxazole. In TIER.Net, clubs are identified using the sub-clinic option.
Club Visit	A club visit is when a club patient (definition above) attends their allocated club session, where pre-packed medication may be distributed and care or treatment complications are discussed. Club visits are recorded in a paper register on location and are subsequently entered into TIER.Net at the facility.
DES (Data Exchange Standard)	The official data exchange standard for transfer of raw data between electronic software programmes (e.g. TIER.Net, SMARTER and other)

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More information on the DES can be found on www.vula.uct.ac.za under the resources tab on the TIER.Net site.

Dispatch

A dispatch is an encrypted digital file for transfer of data to other TIER.Net databases at the different levels of health. A dispatch will also be used in transferring data from TIER.Net to ETR at sub-district and district levels.

EPTB

Extra-pulmonary TB

Export

A general definition of an export is a file template used to transfer data from an application out of the application.
In TIER.Net dispatches, DES files, and Excel exports can all be considered exports in the generic sense. However, in TIER lingo the term "export" is reserved for:

- the Excel exports (a flat file that contains a limited set of data and is used for analyses beyond the standard reports)
- the DES exports (an xml file that contains almost all of the data held in TIER.Net and too often used for analyses of data by people with experience working with relationship tables)
- DHIS exports (for transfer of aggregated service level data to DHIS)

Facility Manager

The health facility manager is responsible overall for all health service activities at a facility including health information

HCT

HIV Counselling and testing (sometimes abbreviated as HCT):
The service is provided where patients are counselled and receive an HIV test

HIV care (pre-ART)

This refers to a patient who has tested positive and is not yet on ART

IPT/INH

Isoniazid Preventive Therapy/ Isoniazid:

The administration of Isoniazid (INH) is given to individuals in order to prevent latent TB infection progression to active TB disease.

LTF

Lost to Follow-up:

Pre-ART LTF: A patient is counted as a LTF when they missed their last scheduled clinical appointment by 90 days or more and have not returned to the clinic. The pre-ART LTF date is the date of the last clinical visit.

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	ART LTF: A patient who has not had ARV drugs in hand for over 90 days. TB LTF: A patient who has not had TB treatment for over 60 days. (Previously called a 'defaulter' in old terminology). *Note: All LTF outcomes need to be manually captured. Potential defaulters are presented on the defaulter report and once the folder has been checked, LTF outcomes are manually recorded. The LTF date is automatically captured by TIER.Net.*
LTF date	The lost to follow-up date captured into TIER.Net is the date of the last actual clinical visit in the facility
PEP	Post-exposure prophylaxis
PMTCT	Prevention of Mother to Child Transmission
Pre-ART/Wellness	Patients who have tested HIV positive but not yet on ART
PTB	Pulmonary TB
Report Period	Extracts records based on initiation date of the particular episode (ART Start date, Entry into HIV care, TB treatment start date): • The report period describes patients who started a particular episode during the year, quarter, month, user defined dates • The default dates in the period windows when drawing a quarterly report are the date when the first patient at the facility or level selected is recorded as starting treatment
RIC	Remaining in Care: Patients who are still active at a facility at the time of reporting (no outcome)
RIP	Rest In Peace: Patient has died
TB	Tuberculosis
TFI/MVI	**Transferred/Moved In:** This indicates the patient has transferred or moved in to a facility from another facility while on a specific treatment (ART, TB, IPT). Patients who are captured as TFI will not be counted in the monthly enrolment as they have been previously counted as NEW at their previous facility. The clinician determines if a patient is a New or TFI.

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TFO/MVO	**Transferred/Moved Out:** Patient requesting treatment at another facility. Data staff will choose new location/facility where patient is requesting being moved or transferred to in the TIER.Net application. The application will place the patient into the transfer or moved out category: • "transfer out" indicates that the new facility is outside the sub-district • "moved out" indicates that the new facility is within the same sub-district
TIER.Net Implementer	A person who has been approved as an installer, trainer and mentor of TIER.Net and its user base. This individual can either be a government official or a member of an NPO support partner assisting with the implementation and general oversight of TIER.Net. Following installation and back capture this individual would provide follow-on support to ensure the site is supported to maintain high quality information and use of data.
Treatment naïve	No prior exposure to triple therapy ARVs for greater than 30 days
Work up	Patient is in HIV or pre-ART care, is eligible and being prepared to start ART

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2 HIV Reports

2.1 How to generate HIV Reports in TIER.Net

- *Open* TIER.Net
- *Click* on **Analysis** and HIV Reports
- *Select* the report you would like to run

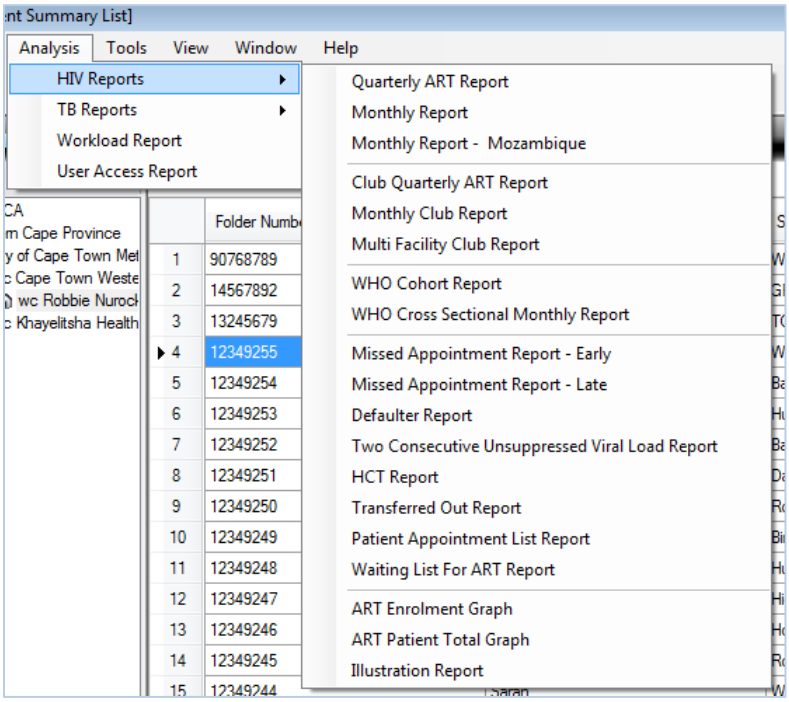

Figure 1: HIV Reports Menu

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2.2 Quarterly Report

The quarterly report is also known as the cohort report. It displays aggregate data by cohort for a specified facility, sub district or district. The report can be generated as:

- The standard report that gives absolute values or;
- The interpreted report that shows percentages for certain fields.

2.2.1.1 Facts about the Quarterly/Cohort report:

- The standard report has been designed for electronic import into the provincial M&E database.
- Interpreted reports provide calculated indicators in addition to the standard report and should be generated for management purposes.
- These reports can only be drawn for children and adults separately.
- The quarterly reports follows patient- longitudinally over time, with baseline characteristics, and then clinical and outcome data at 3, 6, 12 and yearly thereafter.
- The report displays data grouped into cohorts (quarterly by calendar year), one cohort per column. People are counted as adults or children according to the age at ART initiation, and will continue be counted as such throughout their time on treatment.
- For example, children who initiate ART as a child will always have their ART status reported on the child cohort report, even 15 years later when they are considered an adult by definition. It is important to note that the **monthly report bins people according to their current age** while the **cohort report bins people according to their age when they initiated ART**.
- Quarterly outcomes are calculated with a 3 month lag allowing ascertainment of outcome status (LTF or RIP) and time for blood results to return from lab and be captured in system.
- Treatment experienced patients are recorded on the cohort report at baseline only. The total per cohort is reported in the "Number of treatment experienced" row. The treatment experienced patients' ART statuses are not followed over time (are not reported in any of the durations) in the standard cohort report as their true ART start date is unknown. If their ART status were combined with treatment naïve patients there would not be a clear indication as to how patients are reacting to treatment over time, at specific durations. Only treatment naïve patients are followed over time in the standard cohort report. See below for cohort report options for ART patients who initiated ART in other facilities.

2.2.1.2 Quarterly (Cohort) Report Options:

- The **Naïve Only** selection for the cohort report displays results on *patients* who initiated ART at the facility for which the report is being generated (this report excludes TFI patients).

  Note: *In Naïve only mode, TFI/MVI patients do not form part of the cohort and will not appear in the baseline information or follow-up durations. They will however appear in the TFI/MVI row as a count of the number of patients that TFI/MVI during that duration. They are excluded from other calculations.*

- **Transferred In Only** should be chosen if you would only like the cohort report to include outcomes of patients who TFI/MVI to your facility.

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- **Combined** should be chosen when reporting on all patients at your facility, with the exception of the treatment experienced patients.
- **CD4 and Viral Load Results:**
  - The CD4/VL result reported in the cohort report is the one closest to the summary month (0, 6,12, and 12 monthly thereafter).
  - **12 Month CD4/VL Allocation:**
    - Displays viral load and CD4 counts done based on the current South African protocol of safety bloods at baseline, 6 months, 12 months and thereafter every **12** months.
    - The grace periods around the summary month blood results are:
      - minus 6 months to +3 days for the baseline CD4 counts
      - +/- 3 months for the 6 month summary results
      - minus 3 months to + 6 months for the 12 month summary results
      - +/- 6 months for the 12 monthly results thereafter
  - **6 Month CD4/VL Allocation**:
    - Displays viral loads and CD4 counts done at baseline, 6 months, 12 months and thereafter every **6** months.
    - The grace periods around the summary month blood results are:
      - minus 6 months to +3 days for the baseline CD4 counts
      - +/- 3 months for the 6 month, 12 month and thereafter every 6 months
    - This is useful as a management tool to determine whether bloods are being taken at the actual 12 monthly time periods.

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2.2.2 Standard Quarterly Report Interpretation

Quarterly ART Report

Period: 2013/01/01 To 2013/12/31
Date: 2014/01/08
Selected Level: Demo Facility
Age Group Adult

Jan, Feb, March → Q1'13; Apr, May, Jun → Q2'13; July, Aug, Sept → Q3'13; Oct, Nov, Dec → Q4'13; Yearly Summary → 2013

This section displays patient characteristics at ART Start

(The total of FLR +SLR+STO +RIP+LTF+ TFO+MVO in this section will equal FLR+SLR+ STO in the previous section)

	Treatment Cohort	Q1'13	Q2'13	Q3'13	Q4'13	2013
Baseline	Number of ART-naive patients commenced (TOT)	25	9	28	32	94
	Number of ART-naive males	5	1	1	3	10
	Number of ART-naive females	20	8	27	29	84
	Number of ART-naive children <1	-	-	-	-	-
	Number of ART-naive children 1 to <5	-	-	-	-	-
	Number of ART-naive children 5 to <15	-	-	-	-	-
	Number screened for TB	19	3	20	24	66
	Number on TB treatment	2	5	6	3	16
	Number on IPT at start of ART	-	-	-	2	2
	Number on CPT at start of ART	3	-	3	6	12
	Number pregnant at start of ART	2	-	-	2	4
	Number with CD4 below 100 (adults) or 15% TLC (paeds)	-	1	2	4	7
	Number with CD4 100 to 199 (adults) or 20% TLC (paeds)	1	2	9	4	16
	Number with CD4 200 to 350 (adults) or 25% TLC (paeds)	17	2	8	11	38
	Total number of CD4 counts taken at baseline (CDD)	24	9	27	31	91
	Number of Treatment Experienced	-	-	-	-	-
After 3 Months	Continuing first-line regimen (FLR)	23	9	25	24	81
	On second line regimen (SLR)	-	-	-	-	-
	Treatment discontinued (STO)	-	-	1	-	1
	Died (RIP)	-	-	-	-	-
	Lost to follow-up (LTF)	2	-	1	6	9
	Transferred out (TFO)	-	-	-	2	2
	Transferred in (TFI)	2	5	1	-	8
	Moved out (MVO)	-	-	1	-	1
	Moved in (MVI)	-	1	-	3	4
After 6 Months	Continuing first-line regimen (FLR)	21	9	22	20	72
	On second line regimen (SLR)	-	-	-	-	-
	Treatment discontinued (STO)	1	-	1	-	2
	CD4 counts done (CDD)	3	-	2	1	6
	CD4 counts above 200 cells/ or 20% TLC (CDA)	2	-	1	-	3
	Viral load done (VLD)	20	8	15	10	53
	Viral load < 400 copies/mL (VLS)	19	8	15	10	52
	Died between 3 and 6 months (RIP)	-	-	-	-	-
	Lost to follow-up between 3 and 6 months (LTF)	-	-	1	3	4
	Transferred out between 3 and 6 Months (TFO)	1	-	1	-	2
	Transferred in between 3 and 6 Months (TFI)	1	-	-	-	1
	Moved out between 3 and 6 Months (MVO)	-	-	1	1	2
	Moved in between 3 and 6 Months (MVI)	-	-	-	-	-

Figure 2: Standard Quarterly Report Example

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2.2.3 Sample interpretation the Standard Quarterly Report (Figure 2)

2.2.3.1 Baseline Data (sample interpretation using figure 2):

This displays the number starting ART in a specific cohort by adult or child (stratified by age groups), and by baseline CD4 categories. Additional info is available on pregnancy, TB or IPT/CPT at ART start.

Baseline Interpretation:

- **Quarter 1, 2013 data:**
  - **25** people started ART in January, February, March
  - **5** ART Naïve males and **20** ART Naïve females started
  - **19** were screened for TB
  - **2** were on TB treatment
  - **0** were on IPT at start of ART
  - **3** were on CPT at start of ART
  - **2** were pregnant at start of ART
  - **24** had a CD4 count taken at baseline
    - **no patients** had a CD4 count below 100
    - **1** had a CD count between 100 to 199
    - **17** had a CD4 count between 200 to 350
    - **6 had a CD4>350 (remaining number of CD4 counts done at baseline[24-17-1=6)**
  - **No** patients were treatment experienced

2.2.3.2 Durations - 3 months and then 6 monthly thereafter (sample interpretation using figure 2):

First Line Regimen (FLR):

- patients who are on 1st line at the end of the reporting period
  - **23** patients continued on **first line** in Quarter 1 of 2013 after completion of **3** months on ART
  - **21** patients continued on **first line** in Quarter 1 of 2013 after completion of **6** months on ART

Second Line Regimen (SLR):

- patients who are on 2nd line at the end of the reporting period
  - **No** patients were on **second line** in Quarter 1 of 2013 after completion of **3** months on ART
  - **No** patients were on **second line** in Quarter 1 of 2013 after completion of **6** months on ART

Stopped (STO):

- Patients still being seen in the facility for care BUT for whom no drugs were given (they stopped ARV drugs in consultation with a clinician)
  - **0** patients stopped treatment in Quarter 1 of 2013 after completion of **3** months on ART
  - **1** patient stopped treatment in Quarter 1 of 2013 after completion of **6** months on ART

Died (RIP):

- Patient died between completing the last duration on ART and prior to the end of the current duration
  - **0** patients **died** in Quarter 1 of 2013 between baseline and completing **3** months on ART

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- **0** patients **died** in Quarter 1 of 2013 between completing 3 months on ART and completing **6** months on ART

Lost to follow up (LTF):

- no visits or drugs in hand in the last 3 months or more
  - **2** patients became **LTF** in Quarter 1 of 2013 sometime after initiating ART and prior to completing **3** months on ART
  - **0** patients became **LTF** in Quarter 1 of 2013 sometime between the completion of 3 months on ART and prior to completing **6** months on ART

Transferred out (TFO):

- Transferred (with transfer letter) to another facility for treatment.
  - **0** patients became **TFO** in Quarter 1 of 2013 between initiating ART and prior to completing **3** months on ART
  - **1** patient became **TFO** in Quarter 1 of 2013 between the completion of 3 months on ART and prior to completing **6** months on ART

Transferred in (TFI):

- Patient transferred in from another facility while on ART.
  - **2** patients **TFI** in Quarter 1 of 2013 between initiating ART and prior to completing **3** months on ART
  - **1** patient **TFI** in Quarter 1 of 2013 between completing 3 months on ART and prior to completing **6** months on ART

Moved Out (MVO) or Moved In (MVI):

- Patients who have transferred either in or out within a district
    - **0** patients **MVO or MVI** in Quarter 1 of 2013 between initiating ART and prior to completing **3** months on ART
    - **0** patients **MVO** or **MVI** in Quarter 1 of 2013 between completing 3 months on ART and prior to completing **6** months on ART

From 6 months onwards:

- CD4 and VL's counts done and threshold counts are added to the list of data collected at every duration – the number of CD4 done (CDD)
- the number of viral Loads done (VLD)
- the number of CD4 counts above 200 or 20% (CDA)
- the number of viral loads suppressed (VLS) - less than 400 copies/ml

2.2.3.3 Validation (sample interpretation using figure 2):

- The sum of [FLR+SLR+STO+RIP+LTF+TFO+MVO], in any one quarter reporting time period, should equal the [FLR+SLR+STO] in the previous section.
  - [21+0+1+0+0+1+0=23] at 6 months duration = [23+0+0=23] at 3 months duration.

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2.2.4 Interpreted Quarterly Report

The interpreted quarterly report is different from the standard quarterly report in that some indicators are populated as percentages or proportions rather than just absolute values. This report is useful at management level.

The calculated indicators are highlighted in a grey colour in the report:

Table 2: Populated indicators in the Quarterly Interpreted Report

- Percentage screened for TB at ART start - Percentage on TB treatment at ART start - Percentage on IPT at ART start - Percentage on CPT at ART start - Percentage pregnant at ART start (of all adult females) - Percentage of CD4's done - Percentage of CD4's < 100 (<15% for children) - Percentage of CD4's 100 to 199 (15 to <20% for children) - Percentage of CD4's 200 to 350 (20 to <25% for children) - Adult male proportion (of all adults) - Children <1 proportion (of all children)	- Proportion of Treatment Experienced - Proportion on 2nd line regimen - Cumulative proportion died - Cumulative proportion lost to follow up - Cumulative proportion remaining in care - CD4 completion proportion - Proportion of CD4 counts above 200 cells or 20% TLC - VL completion proportion - VL suppression proportion

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Quarterly ART Report - Interpreted

Period: 2013/01/01 To 2013/12/31 **Signed-off by:**

Date: 2014/01/08

Selected Level: Demo Facility **Designation:**

Adult

	Treatment Cohort	Q1'13	Q2'13	Q3'13	Q4'13	2013
Baseline	Number of ART-naive patients commenced (TOT)	25	9	28	32	94
	Number of ART-naive males	5	1	1	3	10
	Number of ART-naive females	20	8	27	29	84
	Number of ART-naive children <1	-	-	-	-	-
	Number of ART-naive children 1 to <5	-	-	-	-	-
	Number of ART-naive children 5 to <15	-	-	-	-	-
	Percentage screened for TB at ART start	76.0%	33.3%	71.4%	75.0%	70.2%
	Percentage on TB Treatment at ART start	8.0%	55.6%	21.4%	9.4%	17.0%
	Percentage on IPT at ART start	-	-	-	6.3%	2.1%
	Percentage on CPT at ART start	12.0%	-	10.7%	18.8%	12.8%
	Percentage pregnant at ART start (of all adult females)	10.0%	-	-	6.9%	4.3%
	Percentage of CD4's done	96.0%	100.0%	96.4%	96.9%	96.8%
	Percentage of CD4s <100 (<15% for paeds)	-	11.1%	7.4%	12.9%	7.7%
	Percentage of CD4s 100 to 199 (15 to <20% for paeds)	4.2%	22.2%	33.3%	12.9%	17.6%
	Percentage of CD4s 200 to 350 (20 to <25% for paeds)	70.8%	22.2%	29.6%	35.5%	41.8%
	Adult male proportion (of all adults)	20.0%	11.1%	3.6%	9.4%	10.6%
	Children <1 proportion (of all children)	-	-	-	-	-
	Proportion of Treatment Experienced	-	-	-	-	-
After 3 Months	Initial Total	25	9	28	32	94
	Continuing first-line regimen (FLR)	23	9	25	24	81
	On second line regimen (SLR)	-	-	-	-	-
	Treatment discontinued (STO)	-	-	1	-	1
	Proportion on second line regimen	-	-	-	-	-
	Died (RIP)	-	-	-	-	-
	Lost to follow-up (LTF)	2	-	1	6	9
	Transferred out (TFO)	-	-	-	2	2
	Transferred in (TFI)	2	5	1	-	8
	Moved out (MVO)	-	-	1	-	1
	Moved in (MVI)	-	1	-	3	4

Figure 3: Interpreted Quarterly Report page 1

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After 6 Months	Initial Total	25	9	28	32	94
	Continuing first-line regimen (FLR)	21	9	22	20	72
	On second line regimen (SLR)	-	-	-	-	-
	Treatment discontinued (STO)	1	-	1	-	2
	Proportion on second line regimen	-	-	-	-	-
	Cumulative died	-	-	-	-	-
	Cumulative lost to follow-up	2	-	2	9	13
	Cumulative transferred out	1	-	3	3	7
	Cumulative proportion died	-	-	-	-	-
	Cumulative proportion lost to follow-up	8.3%	-	8.0%	31.0%	14.9%
	Cumulative proportion remaining in care	91.7%	100.0%	92.0%	69.0%	85.1%
	CD4 counts done (CDD)	3	-	2	1	6
	CD4 counts above 200 cells/ or 20% TLC (CDA)	2	-	1	-	3
	CD4 completion proportion	14.3%	-	9.1%	5.0%	8.3%
	Proportion of CD4 counts above 200 cells/ or 20% TLC	66.7%	-	50.0%	-	50.0%
	VL done (VLD)	20	8	15	10	53
	VL < 400 copies/mL (VLS)	19	8	15	10	52
	VL completion proportion	95.2%	88.9%	68.2%	50.0%	73.6%
	Died between 3 and 6 months (RIP)	-	-	-	-	-
	Lost to follow-up between 3 and 6 months (LTF)	-	-	1	3	4
	Transferred out between 3 and 6 months (TFO)	1	-	1	-	2
	Transferred in between 3 and 6 Months (TFI)	1	-	-	-	1
	Moved out between 3 and 6 Months (MVO)	-	-	1	1	2
	Moved in between 3 and 6 Months (MVI)	-	-	-	-	-

Figure 4: Interpreted Quarterly Report page 2

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2.3 Monthly Report

The monthly report is generated at facility level and gives a summary of monthly reporting indicators.

The report counts a patient as an adult or child according to the patients' current age:

- Adults are 15 years and older
- Children are less than 15 years of age

Simplified Monthly Report

1 of 2 75% Find | Next

Monthly Report

Selected Level:	wc Site XCDC
Date:	2014/04/01
Period:	March 2014

Signed-off by: _____

Designation: _____

on Default Report: 1

New Patients (enrolled this month)		
	HIV Care	ART Care
Adult	11	16
Child	-	-
TOTAL	11	16

New Patients With Prior ART and No Documented ART History (enrolled this month)		
	HIV Care	ART Care
Adult	-	4
Child	-	-
TOTAL	-	4

New Transfer In Patients (this month)		
	HIV Care	ART Care
Adult	6	7
Child	-	-
Total	6	7

Patients Transferred Out (this month)		
	HIV Care	ART Care
Adult	-	10
Child	-	-
TOTAL	-	10

Total Patients Remaining in Care (at the end of this month)		
	HIV Care	ART Care
Adult	31	1968
Child	-	26
TOTAL	31	1994

Waiting List (patient clinically eligible for ART)		
	Work-up Not Started	Work-up Started
Adult	1	30
Child	-	-
TOTAL	1	30

Total Clinical Visits (in this month)		
	HIV Care	ART Care
Adult	33	982
Child	-	12
TOTAL	33	994

Total New Patients Ever Started At This Facility		
	HIV Care	ART Care
Adult	306	2304
Child	3	14
TOTAL	309	2318

A B C D E F G H I

HIV Care: Patients not on ART (wellness and work up patients).

ART Care: Patients on ART.

Includes newly enrolled, prior ART and transferred in stratified by HIV care and ART Care

Total number of patients who have transferred-out to another facility

Total number of patients at the end of the month, who are in HIV or ART care at the facility

Work up status for patients in pre-ART care

Clinic visits in a month

Cumulative patients ever enrolled in pre-ART or ART at this facility (excludes TFI's)

Figure 5: Monthly Report page 1

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2.3.1 Sample Interpretation of the Monthly Report (Figure 5):

A. The facility/site that this report was generated for was Site X CDC
B. This report was generated on 2014/04/01
C. This report was generated for the month of March 2014 – meaning any activity that occurred in March 2014 will be reflected.
D. The report gives a breakdown of children and adults and then the sum total
E. 11 adult patients enrolled this month for HIV Care
F. 16 adult patients started ART: this does not include transfer-in patients or treatment experienced patients (patients with prior ART greater than 30 days)

E & F. If a patient newly enrols into Pre-ART and ART care during the same month, they will only be reflected in the ART Care numbers.

G. 10 patients of whom all are adults, transferred out from this facility to another facility.
H. 31 patients remained in HIV care at the end of the month and 1994 patients remained in ART care.
I. 2318 patients (2304 adults, 14 children) were initiated on ART at this facility since the service began.

Note: For "Total New Patients Ever Started at This Facility", the patient is counted as an adult or child according to the age at initiation. RIC (remaining in care) counts a patient as an adult for child according to the current age at the end of the reporting period.

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2.3.2 On page 2 of the Monthly Report (Figure 6):

J. No patients started IPT during the reported month.

Patients Started on IPT (this month)

	HIV Care	ART Care
Adult	0	0
Child	0	0
TOTAL	-	-

J

Number of patients who started IPT this month

Patients restarted ART (this month)

	ART Care
Adult	-
Child	-
TOTAL	-

Number of patients who have restarted ART this month after stopping ART for >3months

New Pregnant Women on ART (this month)

	ART Care
CD4 <= 350	-
CD4 > 350	-
TOTAL	-

Please note:: Pregnant women starting without a CD4 count are recorded in the CD4 <= 350 category

Number of NEW pregnant women on ART for the month

Number of women stopped due to protocol (this month)

	ART Care
TOTAL	-

Number of women who stopped ART due to the PMTCT/ART protocol

Previous 12 months

Enrolment Into ART

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Adult	12	24	23	30	19	8	18	24	11	11	14	16
Child	-	-	-	-	-	1	-	1	-	-	-	-
TOTAL	12	24	23	30	19	9	18	25	11	11	14	16

Previous year enrolment summary of patients started on ART

Remaining In Care On ART (per month)

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Adult	1855	1860	1880	1904	1907	1907	1899	1908	1913	1935	1951	1968
Child	26	26	26	26	26	27	25	26	26	26	26	26
TOTAL	1881	1886	1906	1930	1933	1934	1924	1934	1939	1961	1977	1994

Previous year remaining in care summary of patients started on ART

Transferred out (TFO)

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Adult	12	17	10	10	20	11	12	6	10	7	7	10
Child	-	-	1	-	-	-	-	-	1	1	-	-
TOTAL	12	17	11	10	20	11	12	6	11	8	7	10

Previous year summary of patients transferred out

Figure 6: Monthly Report page 2

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2.4 Monthly Club Report

This report is useful and to be generated at facility level. For higher levels (district, province) it is best to draw the Multi-Facility Club Report.

Monthly Report

Selected Level: wc Back To Health CDC | Date: 2014/07/01 | Signed-off by: _____

on Default Report: 0 | Period: April 2014 (A) | Designation: _____

ART

New Patients (enrolled this month)		Enrolment Into Chronic Clubs											
	TOTAL	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Chronic Club : ALL (19 clubs)													
Adult	64	23	9	30	8	5	10	9	7	2	14	25	64
Child	-	-	-	-	-	-	-	-	-	-	1	-	-
TOTAL (B, C)	64	23	9	30	8	5	10	9	7	2	15	25	64

Total Patients Remaining in Care (at the end of this month)		Remaining At Chronic Clubs (per month)											
	TOTAL	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Chronic Club : ALL (19 clubs)													
Adult	382	288	266	294	303	296	292	287	287	289	301	321	382
Child	-	1	-	-	-	-	-	-	-	-	1	1	-
TOTAL	382	289	266	294	303	296	292	287	287	289	302	322	382
% Variance - (New RIC - (Previous RIC + New enrolment for this month))/(Previous RIC + New enrolment for this month)	-1.0%	1156.5%	-10.7%	-0.7%	0.3%	-3.9%	-4.6%	-4.7%	-2.4%	0.0%	-0.7%	-1.5%	-1.0%

The top section displays new patients enrolled and the total patients remaining in care in **all clubs** of the facility.

New Patients (enrolled this month)		Enrolment Into Chronic Clubs											
	TOTAL	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Chronic Club : 0001-BTH Clinic													
Adult	33	2	1	2	2	-	5	1	7	1	7	13	33
Child	-	-	-	-	-	-	-	-	-	-	1	-	-
TOTAL (D)	33	2	1	2	2	-	5	1	7	1	8	13	33
Chronic Club : 0002-BTH Clinic													
Adult	1	-	-	-	-	-	-	-	-	-	-	-	1
Child	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	1	-	-	-	-	-	-	-	-	-	-	-	1
Chronic Club : 0003-BTH Clinic													
Adult	-	1	-	-	-	-	-	-	-	-	-	-	-
Child	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL (E)	-	1	-	-	-	-	-	-	-	-	-	-	-
Chronic Club : 0004-BTH Clinic													
Adult	-	2	-	7	-	-	1	-	-	-	-	1	-
Child	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	2	-	7	-	-	1	-	-	-	-	1	-

The bottom section (and continues to page 2) displays the new patients enrolled and the total patients remaining in care breakdown of adults and children, **per club** of the facility.

Figure 7: Monthly Club report page 1

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Total Patients Remaining in Care (at the end of this month)		Remaining At Chronic Clubs (per month)											
	TOTAL	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Chronic Club : 0001-BTH Clinic													
Adult	79	54	29	28	28	26	31	27	33	34	41	52	79
Child	-	1	-	-	-	-	-	-	-	-	1	1	-
TOTAL	79	55	29	28	28	26	31	27	33	34	42	53	79
% Variance - (New RIC - (Previous RIC + New enrolment for this month))/(Previous RIC + New enrolment for this month)	-8.1%	2650.0%	-48.2%	-9.7%	-6.7%	-7.1%	0.0%	-15.6%	-2.9%	0.0%	0.0%	-3.6%	-8.1%
Chronic Club : 0002-BTH Clinic													
Adult	22	29	28	27	26	26	23	21	21	21	22	22	22
Child	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	22	29	28	27	26	26	23	21	21	21	22	22	22
% Variance - (New RIC - (Previous RIC + New enrolment for this month))/(Previous RIC + New enrolment for this month)	-4.3%	-63.3%	-3.4%	-3.6%	-3.7%	0.0%	-11.5%	-8.7%	0.0%	0.0%	4.8%	0.0%	-4.3%
Chronic Club : 0003-BTH Clinic													

F

G

Figure 8: Monthly Club Report page 2

2.4.1 Sample interpretation of the Monthly Club Report (Figure 7 and 8)

A. This report has been generated for the month of April 2014
B. The facility has 19 ART/chronic clubs
C. A total of 64 new patients were enrolled into clubs for the month of April 2014 at the facility
D. A total of 33 new patients were enrolled for the month of April 2014 in Club 0001
E. 1 patient was enrolled into Club 0003 of the clinic
F. A total of 52 adult patients remained in care at the end of March 2014 in Club 0001
G. The variance in remaining in care for February for Club 0002 is 4.8%. The variance is calculated using the formula:
New RIC - (Previous RIC + New enrolment for this month) / (Previous RIC + New enrolment for the month)

Clubs with a variance of less than -5% should be looking into the possibility of additional support needs as this is considered a high attrition rate.

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2.5 Multi Facility Club Report

This report is to be created at sub-district, district or provincial level in order to view a summary of each facilities aggregated club information.

Aggregated Facility Club Summary

Selected Level: wc Western Cape Province **Date:** 02/01/2015 **Signed-off by:** _____

Period: November 2014 **Designation:** _____

Aggregated Facility Club Summary		TOTAL	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Facility : wc Back to Health CDC														
Number Of Clubs	A	2	-	-	-	-	-	-	-	-	-	-	2	2
New Patient Enrolments	B	88	0	0	0	0	0	0	0	9	5	4	47	88
Remaining In Care		167	0	0	0	0	0	0	0	9	14	18	64	151
% Variance		9.9%	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-1.5%	-0.7%
Facility : wc Site X CDC														
Number Of Clubs		8	-	-	-	-	-	-	-	8	8	8	8	8
New Patient Enrolments		14	0	0	0	2	0	8	39	28	17	19	22	14
Remaining In Care	D	150	0	0	0	2	2	10	49	78	95	113	134	145
% Variance	E	1.4%	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	-0.9%	-0.7%	-2.0%

C

Figure 9: Multi Facility Club report

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2.5.1 Sample interpretation of the Multi Facility Club Report (Figure 9)

This report displays information for 2 facilities, for the month of November 2014

A. The facility Back to Health CDC has a total of 2 clubs
B. Back to Health CDC has 88 new patient enrolments
C. 145 out of 150 patients remained in care in November 2014 at Site X CDC
D. Site X CDC has a total of 150 patients remaining in care
E. Site X CDC has a total variance of 1.4%

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2.6 Early and Late Missed Appointment Reports

2.6.1 Early Missed Appointment Report (2 weeks ago):

This report displays a list of patients who missed an appointment at the specified facility between 2 to 3 weeks ago. Only appointments that have been missed during the selected period will be displayed. The report excludes patients who have had a subsequent visit after the missed appointment and patients who have another appointment scheduled after the missed appointment.

Missed Appointment And Defaulter Report

Missed Appointment Report - Early

Selected Level: wc Site X CDC

A **Date:** 2014/07/01

Period: 2014/06/10 - 2014/06/17

Signed-off by: _____

Designation: _____

B **# on Default Report:** 151

Folder Number	Alternate Number	Sub Clinic	Name	Surname	Started ART Date	Last Visit Date	ART Prescribed Months	Duration Since Last Visit (Weeks)	Missed Appointment Date	Duration Since Missed Appointment (Weeks)	Last CD4 Count	Last VL Count	Duration On ART (Months)
12345683			Ella	Briggs	2012/02/13	2014/04/15	2	11.0	2014/06/10	3.0	815	124	28.6
12345693			Jacob	Birch	2013/10/02	2014/03/18	3	15.0	2014/06/10	3.0	119	124	8.9
12345702			Naomi	Burns	2005/11/09	2014/03/19	3	14.9	2014/06/11	2.9	638	124	103.8
12345710			Hollie	O'Donnell	2012/02/13	2014/04/15	2	11.0	2014/06/10	3.0	372	124	28.6
12345713		0001-CDU	Nicole	Bond	2010/07/27	2014/05/14	1	6.9	2014/06/11	2.9	437	124	47.2
12345745		0001-CDU	Kieran	Morley	2010/07/13	2014/05/15	1	6.7	2014/06/12	2.7	443	124	47.6
12345757			Harry	May	2013/09/03	2014/05/13	1	7.0	2014/06/10	3.0	436	41	9.9
12345759		0001-CDU	Kieran	Godfrey	2010/02/18	2014/04/15	2	11.0	2014/06/10	3.0	484	124	52.4
12345802			Isaac	Butler	2007/01/30	2014/03/12	3	15.9	2014/06/11	2.9	1052	124	89.1
12345827			Brooke	Hill	2013/07/02	2014/05/15	1	6.7	2014/06/12	2.7	350	124	12.0
12345856		0001-CDU	Isaac	Farmer	2011/09/28	2014/04/17	2	10.7	2014/06/12	2.7	299	124	33.1
12345868		0001-CDU	Eleanor	Long	2008/05/28	2014/04/15	2	11.0	2014/06/10	3.0	551	124	73.1
12345874		0001-CDU	Aidan	Coleman	2006/03/18	2014/04/16	2	10.9	2014/06/11	2.9	670	124	99.5

C

Figure 10: Early Missed Appointment Report

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2.6.2 Sample interpretation of the Early Missed Appointment Report (Figure 10)

A. The report shows all patients who are late for their appointment by 2 to 3 weeks. The report date is 1 July 2014, therefore all patients who missed an appointment 2 to 3 weeks ago, from this date are displayed, between 10 and 17 June 2014.

B. 151 records/patients are displayed on the report.

C. The row displays information for the example patient Nicole Bond:

- She is part of the club/sub-clinic 0001_CDU
- Her ART start date is 27 July 2010
- She last visited the clinic on 14 May 2014
- At the last visit on 14 May 2014 she was prescribed ART for 1 month
- It has been 6.9 weeks since her last visit
- 11 June 2014 is the date she missed her appointment
- It has been 2.9 weeks since her missed her appointment
- Her last CD4 count was 437
- Her last VL was 124
- She has been on ART for 47.2 months

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2.7 Late Missed Appointment Report (2 - 3 months ago):

This report displays the list of patients who missed an appointment at the specified facility between 2 to 3 months ago. Only appointments that were missed during the selected period will be displayed. The report excludes patients who have had a subsequent visit after the missed appointment and patients who had another appointment scheduled after the missed appointment.

Missed Appointment And Defaulter Report

Missed Appointment Report - Late

Selected Level: wc Site X CDC

A **Date:** 2014/07/01

Period: 2014/04/01 - 2014/05/01

Signed-off by: _____

Designation: _____

B **# on Default Report:** 62

Folder Number	Alternate Number	Sub Clinic	Name	Surname	Started ART Date	Last Visit Date	ART Prescribed Months	Duration Since Last Visit (Weeks)	Missed Appointment Date	Duration Since Missed Appointment (Weeks)	Last CD4 Count	Last VL Count	Duration On ART (Months)
12345698			Samantha	Wall	2005/11/25	2014/02/17	2	19.1	2014/04/14	11.1	528	124	103.2
12345740			Naomi	Wallis	2013/07/10	2014/03/20	1	14.7	2014/04/17	10.7	343	124	11.7
12345809			Isabel	Hayward	2012/06/26	2014/03/24	1	14.1	2014/04/29	9.0	17		24.2
12345873			Nicole	Robinson	2012/12/12	2014/03/05	1	16.9	2014/04/02	12.9	377	124	18.6
12345903		0001-CDU	Jodie	Murphy	2004/03/01	2014/03/19	1	14.9	2014/04/16	10.9	757	124	124.1
12345962		0001-CDU	Georgina	Sullivan	2009/02/06	2014/02/05	2	20.9	2014/04/02	12.9	519	124	64.8
12345968			Kate	Randall	2011/04/13	2014/03/26	1	13.9	2014/04/23	9.9	10	40	38.6
12345972			Natasha	Norman	2012/08/01	2014/02/20	2	18.7	2014/04/17	10.7	126	124	23.0
12346005			Charlie	Nelson	2013/11/25	2014/03/27	1	13.7	2014/04/24	9.7			7.2
12346027		0001-CDU	Shannon	Payne	2008/08/25	2014/02/06	2	20.7	2014/04/30	8.9	444	40	70.2
12346072			Zoe	Woodward	2005/07/06	2014/02/10	2	20.1	2014/04/07	12.1	378	124	107.9

C

Figure 11: Late Missed Appointment Report

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2.7.1 Sample interpretation of the Late Missed Appointment Report (Figure 11)

A. The report shows all patients who are late for their appointment by 2 to 3 months. The report date is 1 July 2014, therefore all patients who missed an appointment 2 to 3 months ago, from this date are displayed [missed appointments between 1 April and 1 May 2014].

B. 62 patients are on the report

C. The patient Naomi Wallis started ART on 10 July 2013:

- She last had an appointment on 20 March 2014
- She was prescribed 1 month of ART
- It has been 14.7 weeks since her last appointment/visit
- She missed her appointment on 17 April 2014
- It has been 10.7 weeks since she missed her appointment
- Her last recorded CD4 count is 343
- Her last VL is 124
- She has been on ART for 11. 7 months

2.8 Defaulter Report:

This report includes pre-ART and ART patients. You can differentiate a pre-ART patient from an ART patient by the ART Start Date. If the ART Start Date field is blank it indicates that the patient is NOT on ART. This report is also known as the Unconfirmed Lost to Follow-Up Report (uLTF Report) and generates a list of patients who have not had ARV's in hand for greater than 90 days. Patients with outcomes (LTF, RIP, TFO/MVO) are not included.

2.8.1 Sample interpretation of the Defaulter Report (Figure 12)

A. The report displays patients who had no drugs in hand and no visit for greater than 90 days (since 31 October 2013). It also shows pre-ART patients who have no visit entered for more than 3 months.

B. There are 4 example patients on the list

C. Tilly Brennan is a pre-ART patient as there is no ART start date. Tilly shows up on the report because it has been 5.6 months since she last attended.

D. Row 4 displays information for the patient Luca Howarth

- Luca started ART on 25 January 2011
- His last visit entered was 15 May 2013
- He had 3 months of ART prescribed at the last visit
- It has been 8.6 months since his last visit
- 15 August 2013 is the first date that Luca had no drugs in hand
- His last CD4 count was 808
- His last VL count was 124
- He has been on ART for 36.2 months

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Defaulter Report

Selected Level: wc Site X CDC **Date:** 2014/01/31 **Signed-off by:** _____

A **Period:** No drugs in hand since before 2013/10/31 (3 Months) **Designation:** _____

B **Number Of Records:** 4

	Folder Number	Alternate Number	Sub Clinic	Name	Surname	Started ART Date	Last Visit Date	ART Prescribed Months	Duration Since Last Visit(Months)	First Date Without Drugs In Hand	Last CD4 Count	Last VL Count	Duration On ART (Months)
C	12345718			Tilly	Brennan		2013/08/14		5.6				
	12345807			Gabriel	Dickinson	2010/12/14	2013/07/09	3	6.8	2013/10/09	294	40	37.6
	12347145			Sophie	Hughes	2008/04/01	2013/05/23	3	8.3	2013/08/23	263	76321	70.1
D	12347976			Luca	Howarth	2011/01/25	2013/05/15	3	8.6	2013/08/15	808	124	36.2

Figure 12: Defaulter Report

2.9 Transferred Out Report

This a monthly report that shows a list of all the patients who were transferred out from the facility to another facility for HIV or ART care.

It shows the Date of Transfer, the months of drugs prescribed to the patient, the date the patient is expected to arrive at the destination facility and also lists the destination facility. This report is a good tracking tool to ensure that patients reach their destination facility.

Patients Transferred Out Report

1 of 1 100% Find | Next

Patients Transferred Out Report

wc Site X CDC: wc Site X CDC **Signed-off by:** _____

Date: 2014/07/02 **Designation:** _____

Period: March 2014 ← A

 # on Default Report: 10

Folder Number	Name	Surname	Date Of Transfer	Months Of Drugs Prescribed	Date Of Expected Arrival	Destination Facility
12345717	Charlotte	Martin	2014/03/28	2	2014/04/24	Other
12345807	Gabriel	Dickinson	2014/03/20	3	2014/04/10	wc Green Point CDC ← B
12346898	Corey	Wallis	2014/03/19	0.5	2014/03/05	Other
12347352	Mason	Andrews	2014/03/18	1	2014/03/18	Other
12347583	Leo	Townsend	2014/03/27	3	2014/05/27	Out of Province
12347688	Scott	Fisher	2014/03/24	1	2014/04/02	ec Ndabakazi Clinic
12348100	Amelia	Benson	2014/03/24	1	2014/03/24	Other
12348482	Erin	Macdonald	2014/03/05	2	2014/03/08	Other
12348491	Aaron	Griffin	2014/03/13	1	2014/03/13	wc Elandsbay Clinic
12348574	Kayleigh	Lamb	2014/03/11	3	2014/05/13	Out of Province

Figure 13: Transferred Out report

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2.9.1 Sample interpretation of the Transferred Out Report (Figure 13)

A. The report displays information for March 2014

B. For the patient Gabriel Dickinson:

- She was transferred out on 20 March 2014
- She was prescribed ART for 3 months
- The expected date for her to arrive at the next facility is 10 April 2014 (at Green Point CDC)

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2.10 Two Consecutive unsuppressed viral load report

This report generates a list of patients who have had two consecutive unsuppressed viral loads recorded and no suppressed viral loads thereafter.

Two Consecutive Unsuppressed Viral Load Report

Selected Level: wc Site X CDC **Date:** 2014/07/30 **Signed-off by:** _____

Number Of Records: 3 **Designation:** _____

Folder Number	Alternate Number	Name	Surname	Date Of Birth	Started ART Date	Last Visit Date	Duration On ART	Previous VL Date	Previous VL Value	Latest VL Date	Latest VL Value	Regimen
12345690		Summer	Harvey	1967-06-11	2009-04-09	2014-06-13	66.9	2012-04-02	666666	2013-02-13	333333	1TFE
12349240		Victoria	Giles	1985-02-26	2010-11-18	2014-06-06	47.5	2014-02-17	700	2014-05-06	678	1TFE
12349245		Isabel	Rose	1962-04-06	2009-02-25	2014-07-20	68.3	2014-04-25	1578	2014-06-20	945	1TFE

Figure 14: Two Consecutive unsuppressed Viral Load Report

2.10.1 Sample interpretation of the Two Consecutive unsuppressed viral load report (Figure 14)

This report shows all the patients who have 2 consecutive unsuppressed viral loads (the default value is 400, but can be changed in the Tools menu).

In row 2, information for the patient Victoria Giles is displayed. Her date of birth, ART start date, last visit date and duration on ART is listed. The two consecutive unsuppressed viral loads are 700 and 678 respectively and she is on regimen 1TFE.

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2.11 HCT Report

This aggregated report counts all patients who have received HIV counselling and testing in a year, showing the breakdown per month.

It specifically shows the following:

- HCT Service: whether a test was accepted or refused
- If the patient responded that the HCT was their first ever HIV test
- Gender
- Referred from: which service performed or referred the patient
- HIV Tests: Screening test, confirmatory test, Rapid test results, PCR and Elisa tests
- Total HIV tests: new positive or new negative
- Known tests: known positive or known negative
- Percentage who has tested positive
- Screened for TB
- CD4 cell count
- The total age proportion tested (<1; ≥1 to <15; ≥15)
- The total age proportion tested positive (<1; ≥1 to <15; ≥15)

2.11.1 Sample interpretation of HCT Report page 1 (Figure 15)

A. Each row displays information for a particular month for the year 2014. For July 2014:
    - No HIV tests were refused and 5 were accepted. That yields a total of 5 tests offered
    - Of the 5 patients who were tested, for 4 patients, it was their first ever HIV test.
    - 4 were male and 1 was female
    - 3 patients were referred from General Services and 2 were referred from TB services
    - 4 screening tests were done of which all were non-reactive
    - 4 confirmatory tests were done and the results were invalid
    - Of the 5 tests done, 4 yielded negative rapid test result and 1 was a positive PCR test
    - No Elisa tests were done

B. For the year 2014, 31 patients accepted testing and 1 refused testing. This yields a total of 32 tests offered at HCT services

C. For 24 of the 31 patients who accepted the test, it was their first ever HIV test

D. Of the 32 patient offered the test, 23 were male and 9 were female

E. 18 patients were referred from General Services and 14 patients were referred from TB services

F. 27 patients had a screening test which was non-reactive and for the 2 patients the screening test was reactive (29 in total)

G. The total number of confirmatory tests will equal the total number of positive screening tests.

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**This report has a bug and we are aware of it, the count in the invalid column should be zero (unless a confirmatory test was not readable), we are fixing this for the next TIER.Net version*.

H. 27 had a negative rapid test result and 2 had a positive result
I. 1 patient had a PCR test done and the result was positive
J. No Elisa tests were done

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HIV Counseling and Testing - Annual Clinical Report

Facility Name: Site X CDC

Year: 2014

Month	HCT Service				Gender		Referred From					Screening Test			Confirmatory Test			Rapid Results				PCR			Elisa		
	TOTAL	Refused Test	Accepted Test	First Ever Test	M	F	General Services	ANC / MCH	TB	STI / Family Planning	Other	Non - Reactive	Reactive	Invalid	Non - Reactive	Reactive	Invalid	Negative	Positive	Discordant	Unknown	Negative	Positive	Invalid	Negative	Positive	Invalid
January	2	0	2	1	1	1	2	-	-	-	-	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
February	5	0	5	4	3	2	3	-	2	-	-	5	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0
March	3	0	3	3	3	0	2	-	1	-	-	3	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0
April	5	0	5	5	4	1	4	-	1	-	-	4	1	0	0	0	5	4	1	0	0	0	0	0	0	0	0
May	1	0	1	1	1	0	1	-	-	-	-	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
June	2	0	2	1	0	2	2	-	-	-	-	2	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
July	5	0	5	4	4	1	3	-	2	-	-	4	0	0	0	0	4	4	0	0	0	0	1	0	0	0	0
August	3	0	3	3	2	1	-	-	3	-	-	3	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	3	1	2	2	3	0	-	-	3	-	-	2	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
November	3	0	3	0	2	1	1	-	2	-	-	2	1	0	0	1	2	2	1	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	32	1	31	24	23	9	18	-	14	-	-	27	2	-	-	1	28	27	2	-	-	-	1	-	-	-	-

A B C D E F G H I J

Figure 15: HCT Report page 1

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Month	HCT Service			Total HIV Tests		Known Tests		% Positive		Referred To	Age (Total Tested)			Age (Total Positive)		
	TOTAL	Refused Test	Accepted Test	New Positives	New Negatives	Known Positives	Known Negatives		Screened for TB	CD4 Cell Count	<1	≥ 1 To <15	≥ 15	<1	≥ 1 To <15	≥ 15
January	2	0	2	0	2	0	0	-	0	0	0	0	2	0	0	0
February	5	0	5	0	5	0	0	-	1	0	1	0	4	0	0	0
March	3	0	3	0	3	0	0	-	0	0	0	0	3	0	0	0
April	5	0	5	1	4	0	0	20.0%	0	0	0	0	5	0	0	1
May	1	0	1	0	1	0	0	-	0	0	0	0	1	0	0	0
June	2	0	2	0	2	0	0	-	1	0	0	0	2	0	0	0
July	5	0	5	1	4	0	0	20.0%	5	1	0	0	5	0	0	1
August	3	0	3	0	3	0	0	-	3	0	0	0	3	0	0	0
September	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0
October	3	1	2	0	2	0	0	-	2	0	0	0	3	0	0	0
November	3	0	3	1	2	0	0	33.3%	3	1	0	0	3	0	0	1
December	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
TOTAL	32	1	31	3	28	-	-		15	2	1	-	31	-	-	3

K L M N O P Q R

Figure 16: HCT Report page 2

2.11.2 Sample interpretation of HCT report page 2 (Figure 16)

K. *This is the same as B above:* For the year 2014, 31 patients accepted testing and 1 refused testing. This yields a total of 32 tests offered at HCT services

L. Of the 31 accepted HIV tests, 28 were new negative patients and 3 were newly HIV positive patients

M. No patients were known negative or known positive

N. 33.3% of the tested patients, tested positive in November 2014

O. 15 patients were screened for TB

P. 2 patients were referred for a CD4 test

Q. 1 patient was less than 1 years old and 31 patients were 15 years of age or older

R. 3 patients tested HIV positive and were 15 years or older

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2.12 Patient Appointment List Report

This report shows a list of all the patients who have an appointment on a particular day specified by the user. It shows the ART start date, last visit date, the months of drugs prescribed to the patient, the appointment date, as well as the duration since the last visit, duration on ART, the last CD4 count and Viral load.

Patient Appointment - Due Report

Selected Level: wc Site XCDC **Date:** 2014/08/04 **Signed-off by:** _____

Period: 2014/08/04 **Designation:** _____

Number Of Records: 18

Folder Number	Alternate Number	Sub Clinic	Name	Surname	Started ART Date	Last Visit Date	ART Prescribed Months	Duration Since Last Visit (Weeks)	Appointment Date	Last CD4 Count	Last VL Count	Duration On ART (Months)
12345805			Christopher	Doyle	2013/05/13	2014/05/12	3	12.0	2014/08/04	546	124	14.7
12345881			Sienna	Chan	2011/01/19	2014/05/12	3	12.0	2014/08/04	760	124	42.5
12346305			Courtney	Ward	2009/11/04	2014/05/12	3	12.0	2014/08/04	528	124	57.0
12346438		0001-CDU	Joe	Warren	2009/02/04	2014/05/12	3	12.0	2014/08/04	732	124	66.0
12346700			Kiera	Smith	2007/07/05	2014/05/12	3	12.0	2014/08/04	1107	124	85.1
12346836			Olivia	Hyde	2011/06/01	2014/05/12	3	12.0	2014/08/04	237	124	38.1
12346851			Lola	Butler	2004/11/12	2014/05/12	3	12.0	2014/08/04	413	124	116.8
12347333			Nicole	Brown	2005/12/20	2014/05/12	3	12.0	2014/08/04	590	124	103.5
12347338			Charlie	Fitzgerald	2011/10/04	2014/05/12	3	12.0	2014/08/04	541	124	34.0
12347362		0001-CDU	Matthew	Hawkins	2006/04/10	2014/05/12	3	12.0	2014/08/04	286	124	99.9
12347538			Hannah	Day	2011/09/05	2014/05/12	3	12.0	2014/08/04	425	40	35.0
12347704			Elizabeth	Lamb	2013/10/02	2014/05/12	3	12.0	2014/08/04			10.1
12348249			Adam	Lowe	2013/08/07	2014/05/12	3	12.0	2014/08/04	243	124	11.9
12348711			Ryan	Stevens	2008/04/16	2014/05/12	3	12.0	2014/08/04	449	124	75.6
12348727			Shannon	Mills	2005/12/08	2014/05/12	3	12.0	2014/08/04	807	124	103.9
12348859			Jacob	Collins	2011/11/14	2014/05/12	3	12.0	2014/08/04	582	124	32.7
12348920			Owen	Abbott	2010/11/08	2014/05/12	3	12.0	2014/08/04	709	71	44.9
12349144			Taylor	Barber	2008/07/11	2014/05/12	3	12.0	2014/08/04	713	124	72.8

Figure 17: Patient Appointment List Report

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2.12.1 Sample interpretation of the Patient Appointment List report (Figure 17):

This report shows a list of all patients (Pre-ART and ART) who have an appointment on a user-defined or chosen day. In this example all patients with an appointment on 4 August 2014 are displayed on the list. Each row shows the patient name and relevant patient information. The ART start date and duration on ART fields will be blank for Pre-ART patients. For the patient Olivia Hyde, her ART start date is 1 June 2014 and her last visit was 12 May 2014. At the last visit Olivia received 3 months of ART. It has been 12 weeks since her last visit.

2.13 Waiting List for ART Report

This report shows all HIV+ patients who are eligible for treatment broken down into those being worked-up (preparation period between becoming eligible and starting ART treatment) and those eligible but not being worked up for ART initiation.

2.13.1 Sample interpretation of the Waiting list for ART Report (Figure 18):

A. A patient can be clinically eligible for ART and measurable by TIER.Net if they fall into one of the following five categories:
   1. Less than 5 years of age
   2. Has active TB
   3. Is pregnant
   4. CD4 count is less than 350
   5. Is stage 3 or 4

Note:

- Patients who are eligible in more than one category are only counted in one category.
- Some of these parametres can be changed in the “Options” window. This allows different countries to set parametres to suit their policy guidelines

B. Tia Hicks is a patient being worked up for ART. Her last CD4 count was 257 and taken on the 9th of February 2014. She last visited the clinic on 16 April 2014. She has been worked up for ART for 0.2 weeks.

Note: The duration of patient work-up is different for each country’s specific ART guidelines. Typically a patient would not be getting worked-up for ART for longer than 4 weeks.

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Waiting List For ART Report

Selected Level:	SOUTH AFRICA	**Date:**	2014/11/07	**Signed-off by:**	_____
Number Of Records:	14	**Period:**	2014/08/07 -	**Designation:**	_____

A

Patients clinically eligible and not yet being worked up for ART (Patients eligible in more than one category appear only in one category)

Surname	Name	Folder Number	Other number	Last CD4 Count/Percent	Last CD4 date	Last Visit Date	Duration eligible (weeks)	Duration being worked up (weeks)
Eligible based on age only (<5 years old)								
Turnbull	Kiera	12346628				2014/07/23	15.3	-
Morgan	John	12346863		246	2014/08/08	2014/08/08	13.0	-
Eligible based on active TB								
Parry	Maya	12345746		691	2014/03/26	2014/03/26	107.3	-
Curtis	Jennifer	12345870		417	2014/04/24	2014/03/04	251.1	-
Eligible based on being pregnant								
Marsh	Lara	12349193				2013/12/27	45.0	-
Eligible based on CD4 count (<350 cells/ul)								
Cartwright	Tom	12347865		243	2014/07/08	2014/07/08	220.3	-
Griffin	Keira	12349097		164	2014/05/21	2014/05/21	24.3	-
Eligible based on stage 3/4								
Sanders	Tegan	12348562		219	2014/03/03	2014/05/05	-	31.6

B

Patients being worked up for ART

Surname	Name	Folder Number	Other number	Last CD4 Count/Percent	Last CD4 date	Last Visit Date	Duration eligible (weeks)	Duration being worked up (weeks)
Brennan	Tilly	12345718				2013/08/14	-	0.6
Pickering	Louise	12345995				2014/03/11	-	1.0
Bradshaw	Eliot	12346309				2014/02/11	-	1.8
Hicks	Tia	12346940		257	2014/02/19	2014/04/16	-	0.2
Conway	Andrew	12348160				2014/04/29	-	1.1

Figure 18: Waiting List for ART Report

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3 TB Reports in TIER.Net

3.1 How to Generate TB Reports in TIER.Net

- *Open* TIER.Net
- *Click* on **Analysis** and TB Reports
- *Select* the report you would like to run

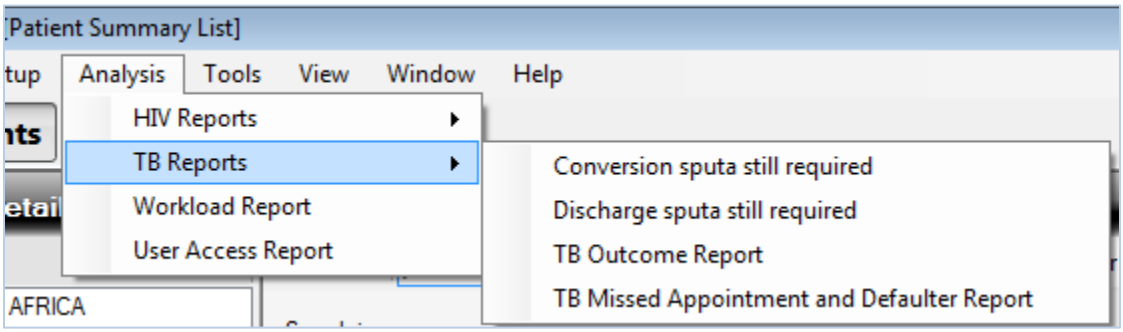

Figure 19: TB Reports Menu

3.2 Conversion Sputa Still Required Report

This report shows TB patients still needing a conversion sputum result who are on:

Regimen 1&3:

The report displays those who have been on treatment between 40 – 139 days and do not yet have a conversion sputum result.

Regimen 2:

The report displays those who have been on treatment between 40 – 179 days and do not yet have a conversion sputum result.

All patients on regimen 1, 2 or 3 appear in these reports if their diagnostic result was a smear or culture positive drug sensitive (DS) Pulmonary TB.

Calculated attributes:

Diagnostic Smear result

- Data Range: 30 days before TB start to 28 days after TB start

Diagnostic Culture result

- Data Range: 30 days before TB start to 28 days after TB start

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Conversion sputa still required

Patients with no conversion result and on Reg 1 between 40 – 70 days after treatment start or on Reg 2 between 60 – 100 days after treatment start

Selected Level: wc Site X CDC **Signed-off by:** _____

Period: 15 Jul 2014 **Designation:** _____

Age Group: ADULTS

Registration Number	Folder Number	Classification	Treatment Start Date	Patient Category	Regimen	Diagnostic Smear Result	Diagnostic Culture Result
4	12349209	Extra Pulmonary TB	2014/05/09	Other	Regimen 2		
3	12349232	Both	2014/05/06	New	Regimen 1		
2	12349244	Pulmonary TB	2014/05/29	New	Regimen 1	Positive	
1	12349248	Pulmonary TB	2014/05/14	New	Regimen 1		Positive

A

Figure 20: Conversion sputa still required Report

3.2.1 Sample interpretation of the Conversion sputa still required report (Figure 20):

A. The patient registered as patient number 2 was diagnosed with pulmonary TB.
   - The patient started treatment on 29 May 2014
   - This is a new TB patient and is on regimen 1
   - The diagnostic smear result was positive

3.3 Discharge Sputa Still Required Report

This report shows which patients still require a discharge sputum result:

Regimen 1 &3

The report displays those who have been on TB treatment between 140 – 180 days and still do not have discharge sputa results recorded in TIER.Net.

Regimen 2

The report displays those who have been on TB treatment between 180 – 240 days and do not have discharge sputum results recorded in TIER.Net.

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Discharge sputa still required

Patients with no discharge result and on Reg 1 between 140 - 180 days after treatment start or on Reg 2 between 200 - 240 days after treatment start

Selected Level: wc Dalevale Clinic **Signed-off by:** _____

Period: 01 Apr 2015 **Designation:** _____

Age Group: Adults

Registration Number	Folder Number	Classification	Treatment Start Date	Patient Category	Regimen	Diagnostic Smear Result	Diagnostic Culture Result	Continuation Smear Result	Continuation Culture Result	
221	104256805	Pulmonary TB	09/10/2014	New	Regimen 1	Negative				
240	108656851	Pulmonary TB	07/11/2014	New	Regimen 1	Positive		Negative		A
242	113318232	Pulmonary TB	10/11/2014	New	Regimen 1	Positive				
40	128741303	Pulmonary TB	03/11/2014	New	Regimen 1		Positive		Positive	
241	128812534	Pulmonary TB	07/11/2014	Relapse	Regimen 1		Negative			

Figure 21: Discharge Sputa still required report

3.3.1 Sample interpretation of the "Discharge sputa still required" report (Figure 21)

A. The patient registered as patient number 240 was diagnosed with pulmonary TB.

- The patient started treatment on 17 May 2014
- The patient is on regimen 1
- This patient had a positive diagnostic smear, a negative continuation culture result and still requires a discharge sputum result.

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3.4 TB Outcome Report

The TB Outcome Report includes all patients whose TB start date is in between the specified period selected for the report.

3.4.1 Definitions of column field labels in the TB Outcome report (Figures 22 and 23):

On page 1:

Still on Rx (treatment): Any person with an open TB treatment, open is defined as not having an outcome.

Cured: Any person with a captured cured outcome

The outcome is validated at time of capture using the following criteria:

- Validation only for Regimen 1, 2 &3
- On treatment for at least 150 days if on regimen 1 Or
- On treatment for at least 210 days if on regimen 2
- Calculation = TB end date minus TB start date, ignoring visits
- Baseline bacteriological confirmation positive
- Negative Conversion Result between 40 and 139 for Regimen 1 / 40 and 179 for Regimen2
- Negative Discharge Result between 140 and 180 for Regimen 1 / 180 and 240 for Regimen2
- Discharge result must be 30 days or more after the negative conversion result

Cured - auto calculated: Same validations as above for cured outcome but has one extra check. The check counts actual day's meds given during the TB episode. According to the visit calendar in the example below you will count 7 days medication given (the '5' illustrates the days medication was given to the patient at the facility and the arrows show the days of coverage for the number of days given)

7	8	9	10	11	12	13	14	15	16	17	18	19
	5	->	->	->	->			2	->			

To be included in the cured (auto calculated) the patient will need over 150 days (regimen 1) or 210 days (regimen 2)

Complete: Any person with a captured 'complete' outcome.

The outcome is validated at capture using the following criteria:

- Validation only for Regimen 1, 2 & 3
- On treatment for 150 days on regimen 1 and on treatment for210 days on regimen 2 (calculation = TB end date minus TB start date, ignoring visits)
- No positive conversion or discharge result.
- Missing either a conversion or discharge sputa or both.

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Complete - auto calculated: Same as above completed outcome (same validation) but has one extra check. The check counts actual days the patient had meds according to the visit calendar. In the example below you will count 7 days of treatment given (5 days plus 2 days).

7	8	9	10	11	12	13	14	15	16	17	18	19
	5	->	->	->	->			2	->			

To be included in the completed (auto calculated) the patient will need over 150 days (regimen 1) or 210 days (regimen 2) of TB treatment given prior to closing the episode.

Rx Int/Def: Any person with a captured outcome of "Treatment Defaulted" or treatment interrupted

Validation: patient without TB drugs for >2 consecutive month

Died: Any person with a captured outcome of "Died"

Failed: Any person with a captured outcome of "Treatment Failure"

- Validation: patient with a positive last conversion test result or a positive discharge test result

TFO (transferred out): Any person with a captured outcome of "Transferred/Moved out"

Total cases: Grand total cases during reporting period

Adult cases: Total adult cases during reporting period 8 years old or older

Child cases: Total child cases during the reporting period <8 years of age

<u>On page 2:</u>

Total cases (repeated for readability)

Known HIV Neg: Any person known negative before TB treatment start

Known HIV Pos:

- Any person known positive before TB treatment start ***or***
- Everyone with ART start date prior to 31 days before TB Rx start ***or***
- Everyone with Pre-ART start date prior to 31 days before TB Rx start

Tested HIV Negative: Any person tested HIV negative while in TB care

Tested HIV Positive: Any person tested HIV positive while in TB care

Refused HIV test: Any person refused HIV testing

On ART before TB Start*: Any person on ART before TB treatment start

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Start ART during TB Rx: Any person who started ART while in TB care

ART Eligible not started by TB Rx End: Any person eligible for ART but not yet started by the end of TB treatment

3.4.2 Definitions of row labels of the TB Outcome report (Figure 22 and 23):

Stratified field values (based on patient category):

New: Patient captured as "New" in patient category of TB registration

Retreatment: Patient captured as "Relapse", "Re-Treatment After Failure", "Re-Treatment After Default" or "other" in patient category of TB registration

Categories:

PTB - Smear positive: based on field called "Disease Classification" and diagnostic result (baseline result)

PTB - Smear negative: based on field called "Disease Classification" and diagnostic result (baseline result)

PTB - No smear: based on field called "Disease Classification" and diagnostic result (baseline result).

EPTB: based on field called "Disease Classification"

Total TB cases: Sum of all cases in each of the columns

**Note 1:*

- If episode only has GeneXpert at baseline then = no smear
- if episode has GeneXpert+ and smear+ = smear positive
- if episode has GeneXpert+ and smear- = smear negative
- *in other words, the smear always trumps the GeneXpert at baseline*

**Note 2:*

- If disease classification = Both, Report is mapped to PTB.

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TB Outcome Report

Selected Level: Demo Facility

Period: 01/01/2013 To 13/01/2015

Signed-off by: _____

Designation: _____

	Case	Still On Rx	Cured	Cure (auto calculated)	Complete	Complete (auto calculated)	Rx Int/Def	Died	Failed	TFO	Total Cases	Adult Cases	Child Cases
	PTB - Smear Positive												
A	New	1	1	1	0	0	1	0	0	0	3	3	0
	Retreatment	0	0	0	0	0	0	0	0	1	1	0	1
	PTB - Smear Negative												
	New	1	0	0	1	1	0	0	1	0	3	1	2
B	Retreatment	0	0	0	0	0	0	0	0	0	-	0	0
	PTB - No Smear												
	New	0	0	0	1	1	0	0	0	0	1	0	1
C	Retreatment	1	0	0	0	0	0	1	0	0	2	1	1
	EPTB												
D	New	1	0	0	0	0	0	0	0	0	1	0	1
	Retreatment	0	0	0	0	0	0	0	0	0	-	0	0
E	Total TB Cases	4	1	1	2	2	1	1	1	1	11	5	6
	TB proportion	36.4%	9.1%	9.1%	18.2%	18.2%	9.1%	9.1%	9.1%	9.1%	-	45.5%	54.5%

F G

Figure 22: TB Outcome Report page 1

3.4.3 Sample interpretation of the TB Outcome Report (Figure 22)

A. *Pulmonary TB Smear Positive cases (New):*

- 1 new patient was still on treatment
- 1 new patient was cured of TB (same patient as "cure auto calculated")
- 1 new patient had his/her treatment interrupted or became lost to care on treatment
- This yields a total of 3 cases of which all are adults.

Pulmonary TB Smear Positive cases (Retreatment):

- 1 patient transferred out (TFO) of the facility

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- This 1 patient is a child and makes up the total number of cases

B. *Pulmonary TB Smear negative cases (new):*
   - 1 patient is still on treatment
   - 1 patient completed treatment (included as auto-calculated)
   - 1 patient failed treatment
   - This yields a total of 3 patients of which 1 is an adult and 2 are children

   Pulmonary TB Smear negative cases (retreatment):
   - No retreatment cases

C. *Pulmonary TB No smear cases (New):*
   - 1 patient completed treatment (included in auto-calculated)
   - Total of 1 child case

   Pulmonary TB no smear cases (retreatment):
   - 1 patient still on treatment
   - 1 patient died
   - This is a total of 2 cases of which 1 is an adult and 1 is a child

D. *Extra-pulmonary TB Cases (new):*
   - 1 patient still on treatment
   - Total of 1 child case

   Extra-pulmonary TB Cases (retreatment):
   - No retreatment cases

E. *Total TB Cases:*
   - 4 patients still on treatment
   - 1 patient cured
   - 2 patients completed treatment
   - 1 patient defaulted treatment or had treatment interruption
   - 1 patient died
   - 1 patient failed treatment
   - 1 patient transferred out to another facility

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- This yields a total of 11 cases (4+1+2+1+1+1+1 = 11)

F. There is total of 11 cases (Total TB proportion of 100%). 5 are adults which is a TB proportion of 45.5%

G. 6 of the 11 TB cases are children which is a TB proportion of 54.5%

3.4.4 On page 2 of the TB Outcome report (Figure 23):

H. There is a total of 11 TB cases (3+1+3+1+2+1 = 11)

I. There are no known HIV negative cases and 6 know HIV positive cases

J. Out of 11 cases, only 1 patient tested HIV positive. This patient is pulmonary TB patient who had no smear done

K. 1 patient refused HIV testing

L. 6 of the 6 known HIV-positive patients were on ART before starting TB treatment

M. 2 patients started ART during TB treatment (1 new patient with pulmonary TB smear negative and 1 new patient with extra-pulmonary TB)

N. 2 patients were ART eligible, but had not yet started ART by the time they ended TB treatment (1 new patient with pulmonary TB smear negative and 1 new patient with pulmonary TB – no smear)

Case	Total Cases	Known HIV Neg	Known HIV Pos	Tested HIV Negative	Tested HIV Positive	Refused HIV Test	On ART before TB Start *	Start ART during TB Rx **	ART Eligible not started by TB Rx End
PTB - Smear Positive									
New	3	0	3	0	0	0	3	0	0
Retreatment	1	0	1	0	0	0	1	0	0
PTB - Smear Negative									
New	3	0	1	0	0	0	1	1	1
Negative	-	0	0	0	0	0	0	0	0
PTB - No Smear									
New	1	0	0	0	1	0	0	0	1
Retreatment	2	0	1	0	0	1	1	0	0
EPTB									
New	1	0	0	0	0	0	0	1	0
Retreatment	-	0	0	0	0	0	0	0	0
Total TB Cases	11	-	6	-	1	1	6	2	2

H I J K L M N

Figure 23: TB Outcome Report page 2

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3.5 TB Missed Appointment Report

The TB Missed Appointment Reports are similar to the missed appointment reports in the HIV module, creating a list of patients who have missed an appointment or are unconfirmed defaulters in the database.

There are two types of TB missed appointment reports. The one show a list of patients who are **between 1 and 2 weeks late** for the appointment and the other one shows patient who are **between 2 and 3 weeks** late for their appointment.

The report is based on the next appointment date and patients without a next appointment date will not reflect on the report.

Calculated attributes:

- Duration since last visit (days)
  - Today's date subtracted from the last visit date

Missed TB appointments between 2 and 3 weeks report

Selected Level: wc Site X CDC **Date:** 2014/11/13 **Signed-off by:** _____

Number Of Records: 1 ← **A** **Designation:** _____

	Folder Number	Alternate Number	Name	Surname	TB Start Date	Last TB Visit Date	Days TB Medication Dispensed	Duration Since Last Visit	Missed Appointment Date	Last TB Test Type	Last TB Test Result	Regimen
B →	12349244		Sarah	White	2014/05/29	2014/10/04	25	40	2014/10/29	Smear	P+	Regimen 1

Figure 24: Example of the TB Missed appointment report (between 2 and 3 weeks)

3.5.1 Sample interpretation of the TB Missed appointment report (Figure 24)

A. There is one patient on the defaulter report

B. The patient is Sarah White

- Her TB start date is 29 May 2014
- Her last TB visit date is 4 October 2014

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- At the last TB visit she received drugs in hand for 25 days
- It has been 40 days since her last visit date
- She missed her appointment on 29 October 2014
- The last TB test was a smear and she tested positive
- Sarah is on regimen 1

3.6 TB Defaulter Report

This report includes distinct patients who are over 2 months late for their appointment. The report is based on the next appointment date.

Calculated attributes:

Duration since last visit (days)

- Today's date - last visit date

TB Defaulter Report

Selected Level: wc Cape Town Western Health **Date:** 2014/06/27 **Signed-off by:** _____

Number Of Records: 2 ← A **Designation:** _____

Folder Number	Alternate Number	Name	Surname	TB Start Date	Last TB Visit Date	Days TB Medication Dispensed	Duration Since Last Visit	Missed Appointment Date	Last TB Test Type	Last TB Test Result	Regimen
13245679		JERRY	TOM	2014/04/04	2014/04/04	7	84	2014/04/11	Smear	P+	Regimen 1
B → 90768789		PEARL	WHITE	2014/03/04	2014/03/04	7	115	2014/03/11	GeneXpert	Positive	Regimen 1

Figure 25: TB Defaulter Report

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4 Staff management reports

4.1 Workload Report

The Workload report displays a list of users who have captured patient visits. The report shows the total number of visits captured at the facility per user, per day.

This report is for use at facility level for the facility manager to help with staff management and will not show any user names at sub-district or district levels.

The report shows the following the total number of visits captured per user during the specified period and total number of visits captured per user during the specified period on particular days. The fields are:

- User description: Name and surname of the user
- User role: Implementer, user or administrator
- The number of visits captured

Work Place Report

Date: 2014/07/30 **Signed-off by:** _____

Period: 2013/01/01 - 2013/12/31 **Designation:** _____

Number Of Records: 249

On Date	User Description	User Role	Visits Captured	
Total number of visits captured per user during period				
-	Jeff Smith	NORMALUSER	4,150	A
-	Rita Jackson	NORMALUSER	3,772	
Total number of visits captured per user during period				
2013/12/31	Rita Jackson	NORMALUSER	24	
2013/12/30	Jeff Smith	NORMALUSER	68	B
2013/12/27	Rita Jackson	NORMALUSER	10	
2013/12/24	Rita Jackson	NORMALUSER	17	
2013/12/23	Rita Jackson	NORMALUSER	36	
2013/12/20	Jeff Smith	NORMALUSER	22	
2013/12/19	Jeff Smith	NORMALUSER	36	
2013/12/18	Rita Jackson	NORMALUSER	40	
2013/12/17	Jeff Smith	NORMALUSER	64	
2013/12/13	Rita Jackson	NORMALUSER	85	
2013/12/12	Jeff Smith	NORMALUSER	14	
2013/12/12	Rita Jackson	NORMALUSER	48	
2013/12/11	Jeff Smith	NORMALUSER	53	
2013/12/10	Jeff Smith	NORMALUSER	63	
2013/12/09	Jeff Smith	NORMALUSER	148	

Figure 26: Workload Report

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4.1.1 Sample interpretation of the Workload report (Figure 26):

A. Jeff Smith is a normal user whoc captures data and has captured 4 150 visits from 1 January until 31 December 2013.
B. On the 31st of December, Rita Jackson (a user) captured 24 visits and on 30 December Jeff captured 68 visits.

4.2 User Access Report

The User Access report shows a list of user accounts (implementers, administrators and users) with the last log in date, activation status, as well as the time and date that each person logged on or logged off from the TIER.Net system.

4.2.1 Sample interpretation of the User Access report (Figure 27):

A. There are three user accounts for this facility. 1 is an implementer role and 2 are user roles with all accounts have been activated or are active. The column "Change" is for the facility manager to complete to note any changes regarding the user account. For example, the account may need to be deactivated because the staff member has resigned or his/her role within the facility has changed.
B. The implementer for this facility logged in and out quite a few times at the facility on the 30th of July 2014

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User Account and Access log Report

Station name: SiteX CDC **Date:** 2014/07/30 **Signed-off by:** _____

Period: 2014/01/01 - 2014/07/30 **Designation:** _____

A →

User Accounts in TIER.Net

Username	Name	Surname	User Role	Tel	Last Login Date	Status	Change
implelmenter	implementer	implementer	IMPLEMENTER	-	2014/07/30	Activated	
Jeff	Jeff	Smith	NORMALUSER	-	2014/07/08	Activated	
Rita	Rita	Jackson	NORMALUSER	-	2014/07/04	Activated	

B →

TIER.Net Access Log

Username	Name	Surname	User Role	Log Type	Date	Time
implelmenter	implementer	implementer	IMPLEMENTER	Login	2014/07/30	04:08 PM
implelmenter	implementer	implementer	IMPLEMENTER	Logout	2014/07/30	04:06 PM
implelmenter	implementer	implementer	IMPLEMENTER	Login	2014/07/30	04:05 PM
implelmenter	implementer	implementer	IMPLEMENTER	Logout	2014/07/30	04:05 PM
implelmenter	implementer	implementer	IMPLEMENTER	Login	2014/07/30	04:02 PM
implelmenter	implementer	implementer	IMPLEMENTER	Logout	2014/07/30	04:02 PM
implelmenter	implementer	implementer	IMPLEMENTER	Login	2014/07/30	03:57 PM
implelmenter	implementer	implementer	IMPLEMENTER	Logout	2014/07/30	03:57 PM
implelmenter	implementer	implementer	IMPLEMENTER	Login	2014/07/30	02:03 PM
implelmenter	implementer	implementer	IMPLEMENTER	Logout	2014/07/30	02:03 PM
implelmenter	implementer	implementer	IMPLEMENTER	Login	2014/07/30	02:02 PM
Jeff	Jeff	Smith	NORMALUSER	Login	2014/07/08	07:08 AM
Jeff	Jeff	Smith	NORMALUSER	Login	2014/07/07	07:14 AM
Jeff	Jeff	Smith	NORMALUSER	Logout	2014/07/07	03:39 PM

Figure 27: User Access report

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5 Report Algorithms

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Table 3: Data elements and indicator calculations for the cohort report

Appendix I: Descriptions of the Elements and Indicators

	Data elements or indicator	Classification	Description
baseline	CD<50prop	Indicator	Proportion of adults starting ART with a CD4 count < 50cells/ul*
	Male prop	Indicator	Proportion of adults starting ART who are men
	Exp prop	Indicator	Proportion of adults or children starting ART with previous ART exposure
Outcome elements and indicators - cumulative	Initial Total	Element	Total treatment naïve adults or children who originally started ART in that cohort
	On first-line	Element	Total treatment naïve patients on first line drugs when that cohort of patients reached that duration on ART
	On Second-line	Element	Total treatment naïve patients on second line drugs when that cohort of patients reached that duration on ART
	In care but stopped ARVs	Element	Total treatment naïve patients in care but not on ARV drugs when that cohort of patients reached that duration on ART
	perc SL	Indicator	Proportion of patients on second-line when that cohort of patients reached that duration on ART
	Died-c	Element	Total treatment naïve patients who died while in care when that cohort of patients reached that duration on ART
	Lost to followup-c	Element	Total treatment naïve patients who were lost to follow-up (defaulted 3 months+) when that cohort of patients reached that duration on ART
	Transferred out-c	Element	Total treatment naïve patients who transferred out when that cohort of patients reached that duration on ART
	cum%died	Indicator	Proportion of patients who died, compared to initial total, when that cohort of patients reached that duration on ART
	cum%ltf	Indicator	Proportion of patients that are lost to follow-up (defaulted 3 months+), compared to initial total, when that cohort of patients reached that duration on ART
	cum%in care	Indicator	Proportion of patients who are remaining in care (subtracting those who have transferred out), compared to initial total (subtracting those who have transferred out), when that cohort of patients reached that duration on ART
	CD4's done	Element	Total number of CD4's done in that cohort of patients during that six month duration
	CD4's >= 200	Element	Total number of CD4's >= 200 in that cohort of patients during that six month duration
	CD4 compl.%	Indicator	Proportion of CD4 counts done, compared to number of patients remaining in care, in that cohort of patients during that six month duration
	CD4>200%	Indicator	Proportion of CD4 counts > 200 compared to all CD4counts done in that cohort of patients during that six month duration
	Viral loads done	Element	Total number of viral loads done in that cohort of patients during that six month duration
	Viral loads<400	Element	Total number of viral loads < 400 in that cohort of patients during that six month duration
	VL completion%	Indicator	Proportion of viral loads done, compared to number of patients remaining in care, in that cohort of patients during that six month duration
	VL supp%	Indicator	Proportion of viral loads < 400 out of all viral loads done in that cohort of patients during that six month duration
Elements and indicators per duration	Died	Element	Number of treatment naïve patients who died while in care in that cohort of patients during that particular duration on ART
	Lost to followup	Element	Number of treatment naïve patients who became lost to follow-up (defaulted 3 months+) in that cohort of patients during that particular duration on ART
	Transferred out	Element	Number of treatment naïve patients who transferred to another health care site in that cohort of patients during that particular duration on ART
	Transferred in	Element	Number of treatment naïve patients who transferred in from another health care site in during that particular duration on ART
	Perc died	Indicator	Proportion of patients on ART who died during a particular duration compared to the total number of patients in the cohort whom remained in care at the start of that duration
	Perc LTF	Indicator	Proportion of patients on ART who became lot to follow-up during a particular duration compared to the total number of patients in the cohort whom remained in care at the start of that duration
	Perc Died or LTF	Indicator	Proportion of patients on ART who died or became lost to follow-up during a particular duration compared to the total number of patients in the cohort whom remained in care at the start of that duration
	Perc TFO	Indicator	Proportion of patients on ART who transferred out to another ARV treatment center during a particular duration compared to the total number of patients in the cohort whom remained in care at the start of that duration
	Remaining in care	Indicator	Proportion of patients on ART who remain in care (on first line, second line, or stopped but still receiving attention) when that cohort of people reached that duration on ART

* In children , a CD4 lymphocyte percentage < 15% is used instead of an absolute CD4 count of < 50 cells/ul to delineate children with very advanced disease on starting ART

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Table 4: Abbreviations and Formulas of the Elements and Indicators

Appendix II: Abbreviations and Formulas of the Elements and Indicators

	Data elements or indicator	Abbreviation	Numerator	Denominator	Formula
Baseline	CD<50prop	%CD4<50	Treatment naïve adults with a baseline CD4 < 50	Total treatment naïve patients starting ART	No. of CD4<50 / TOT
	Male prop	Male %	Treatment naïve adult men starting ART	Total treatment naive patients starting ART	No. of Male / TOT
	Exp prop	EXP %	Non-naïve patients starting ART	Total naive and non-naïve patients starting ART	No. of EXP / TOT
Outcome elements and indicators - cumulative	Initial Total	TOT	Absolute Number		
	On first-line	FLR	Absolute Number		
	On Second-line	SLR	Absolute Number		
	In care but stopped ARVs	STO	Absolute Number		
	perc SL	%SLR	Patients on second-line regimens	Patients on second-line + those on first line	=SLR / (FLR+SLR)
	Died-c	RIPc	Absolute Number		
	Lost to follow-up-c	LTFc	Absolute Number		
	Transferred out-c	TFOc	Absolute Number		
	cum%died	%RIPc	Accumulative number of patients passed away	Initial total patients minus accumulative transfer out patien	=(RIPc) / (TOT-TFOc)
	cum%ltf	%LTFc	Accumulative number of patients lost to follow-up	Initial total patients minus accumulative transfer out patien	=(LTFc) / (TOT-TFOc)
	cum%in care	%RICc	Number of patients remaining in care at a duratio	Initial total patients minus accumulative transfer out patien	= (TOT-LTFc-RIPc-TFOc) / (TOT-TFOc)
	CD4's done	CDdone	Absolute Number		
	CD4's >= 200	CD>200	Absolute Number		
	CD4 compl.%	%CDdone	Number of CD4 counts done during a duration	No. of patients on first or second line in same duration	=CDD / (FLR+SLR)
	CD4>200%	%CD>200	No. of CD4s greater than 200 during a duration	Number of CD4 counts done during a duration	=CDA / CDD
	Viral loads done	VLdone	Absolute Number		
	Viral loads<400	VLsupp	Absolute Number		
	VL completion%	%VLdone	Number of viral loads done during a duration	No. of patients on first or second line in same duration	=VLD / (FLR+SLR)
	VL supp%	%VLsupp	No. of viral loads less than 400 during a duration	Number of viral loads done during a duration	=VLS / VLD
Elements and indicators per durati	Died	RIP	Absolute Number		
	Lost to followup	LTF	Absolute Number		
	Transferred out	TFO	Absolute Number		
	Transferred in	TFI	Absolute Number		
	Perc died	%RIP	Number of patients passed away during duration	Number of patients at beginning of same duration	=RIP/ (FLR+SLR+STO+RIP+LTF+TFO)
	Perc LTF	%LTF	Number of patients lost to follow-up during duratic	Number of patients at beginning of same duration	=LTF/(FLR+SLR+STO+RIP+TFO+LTF)
	Perc Died or LTF	%RIP/LTF	Lost to follow-up + passed away during duration	Number of patients at beginning of same duration	=(RIP+LTF)/(FLR+SLR+STO+TFO+LTF+RIP)
	Perc TFO	%TFO	Number of patients who formally transferred out	Number of patients at beginning of same duration	=TFO /(TFO+LTF+RIP+FLR+SLR+STO)
	Remaining in care	RIC	Number of patients remaining in care at a duratio	Initial total number of patients at baseline	=(FLR+SLR+STO)/TOT

*In children , a CD4 lymphocyte percentage < 15% is used instead of an absolute CD4 count of < 50 cells/ul to delineate children with very advanced disease on starting ART

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Table 5: TB Outcome report Calculated Attributes

Data elements or indicator	Description	Data Range	Front end values
Known HIV Neg	Any person known negative before TB treatment start (Data pulled from HIV Module)	Include if between TB start and 3 months before start	Refused recently known negative
	Any person known negative before TB treatment start	Include if between 3 months and 31 days before TB Start	Accepted & Negative
Known HIV Pos	Any person known positive before TB treatment start. (Data pulled from HIV module)	All	Refused known positive
	Any person known positive before TB treatment start.	more than 31 days (inclusive) prior to starting TB	Accepted and positive
	Everyone with ART start date prior to 31 days before TB Rx start	n/a	n/a
	Everyone with Pre-ART start date prior to 31 days before TB Rx start	n/a	n/a
Tested HIV Negative	Any person tested HIV negative while in TB care (Data pulled from HIV module)	30 days before TB start until TB end date	Accepted & Negative
Tested HIV Positive	Any person tested HIV positive while in TB care. (Data pulled from HIV module)	30 days before TB start until TB end date	Accepted & positive
Refused HIV test	Any person refused HIV testing. (Data pulled from HIV module)	30 days before TB start until TB end date	Refused Testing & Unknown
On ART before TB Start*	Any person on ART before TB treatment start. (Data pulled from HIV module)	Patients who have an ART start date prior to 31 days before TB Rx start	
Start ART during TB Rx	Any person who started ART while in TB care (Data pulled from HIV module)	All patients starting ART from 30 days prior to Tb Rx start until TB Rx end date	
ART Eligible not started by TB Rx End	Data pulled from HIV module	Known positive / tested positive / pre -art not started by their TB Rx end	

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Table 6: TB Outcome Report TB Proportions

TB Proportion type	Breakdown of proportion
Still on Rx	Total sum "Still on Rx" divided by sum of "Total cases"
Cured	Total sum "Cured" divided by sum of "Total cases"
Complete	Total sum "Complete" divided by sum of "Total cases"
Rx Int/Def	Total sum "Rx Int/Def" divided by sum of "Total cases"
Died	Total sum "Died" divided by sum of "Total cases"
Failed	Total sum "Failed" divided by sum of "Total cases"
TFO	Total sum "TFO" divided by sum of "Total cases"
Adult cases	Adult cases divided by total cases
Adult cases	Child cases divided by total cases
On ART	On ART divided by total cases

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