

MINISTRY OF HEALTH



OpenMRS MODULE USE GUIDE

NAME: Quarterly HIV Care and ART Reporting Module

Contents

OVERVIEW	4
1. HIV Palliative care (non-ART and ART)	4
2. ART care	5
3. Change in CD4+ count and ART adherence for 6-month and 12-month cohorts.....	6
4. ART Program Follow-Up.....	7
5. Number of patients on each regimen at the end of the quarter	7
MODULE FEATURES.....	7
Login page	8
Username and password	8
Administration page	9
Activities.....	9
Printing the page.....	12
View Patients.....	12
Patients' details	13
Data Export	13

FIGURES

Figure 1. Login page	8
Figure 2. Login page with Username and Password	8
Figure 3. Administration page.....	9
Figure 4. Quarterly HIV Care And ART Reporting Module	9
Figure 5. Home page	10
Figure 6. Statistics Page	11
Figure 7. Printing the page	12
Figure 8. View Patients	12
Figure 8. Patients' details	13
Figure 9. Export data	13
Figure 10. Excel sheet	14

OVERVIEW

This form is designed to report quantitative and qualitative information about HIV care and ART care at a medical facility for a reporting period lasting from the first day of the quarter to the last day of the quarter during the USG fiscal year. For example, data from the first quarter of the fiscal year would include information from October 1 to December 31. (2nd quarter lasts from Jan 1 – March 31, 3rd quarter lasts from April 1 – June 30, 4th quarter lasts July 1 – September 30). One quarter is equal to three full months.

Quarterly Reporting gives possibilities of getting patients by different categories of gender and age.

Quarterly HIV Care and ART Reporting module provide different categories of patients' information.

1. HIV Palliative care (non-ART and ART)

Tables 1.0 and 1.1 collect *facility-based* information on “Palliative Care.” Table 1.1 is an age-disaggregated subset of Table 1.0.

- The first column includes the cumulative total number of persons ever enrolled in HIV care program at the facility at beginning of the quarter.
- The second column includes new persons enrolled in the HIV care program at the facility during the reporting quarter.
- The number in the third column should equal the sum of the numbers in the first and second columns for each row.
- The final column should include all HIV-infected persons who received care provided by this facility at any time during the quarter. For the purpose of this table, care is defined as any **encounter** between a staff person and the person in care, including enrollment visits, **medical visits**, **home-based care**, and **visits to the pharmacy, lab, adherence counselor**, etc (1).

- Number in HIV care during the quarter & eligible for ART, but NOT started ART by the end of the quarter are all persons who met the facility's definition of eligibility for ART, but who had not yet started ART by the end of the quarter. This number should be a subset of (1).

2. ART care

Tables 2.0 and 2.1 collect information consistent on “Treatment: Antiretroviral Services.”

Table 2.1 is an age-disaggregated subset of Table 2.0.

- The first column should include cumulative total number of persons started on ART at this facility at the beginning of the quarter.
- The second column should include persons who started ART during the reporting quarter.
- The number in the third column should equal the sum of the numbers in the first and second columns for each row.
- The fourth column is a subset of the second column. This column includes only persons who initiated ART during the reporting period (NEW). New persons do not have to be treatment naïve. For example, a woman may have received single dose nevirapine for prevention of mother-to-child transmission in the past. She is not treatment-naïve, but she will be NEW to ART care.
- The fifth column is also a subset of the second column. This column includes only persons who were already on ART supported by another source (self-pay, Ministry of Health, etc.) and who continued ART, but transferred into the EP program (TRANSFERS).
- Pregnant females request information on number of females who were pregnant at the time of enrollment into ART care cumulatively at the beginning of the quarter, during the quarter, and cumulatively at the end of the quarter.
- Pregnant female (fifth column) requests the number of pregnant females who enrolled in the quarter and were NEW on ART.
- Pregnant female (sixth column) asks for the number of pregnant females who enrolled in the quarter and who continued ART started at another facility (TRANSFERS); Pregnant female (seventh column) requests the total number of females on ART at the end of the quarter who were pregnant at any point during the quarter;
- ART care includes persons taking ARVs for their own health, not women taking ART only for PMTCT (prevention of mother to child transmission).

3. Change in CD4+ count and ART adherence for 6-month and 12-month cohorts

Because normal ranges of CD4 counts are different for adults and children, it gives exclusively persons who are 6 years.

- Table 4.1 should include information for persons who have completed 6 months of ART, **except** cell 4.1b should include all persons who began ART in this cohort, even if they did not complete 6 months of ART.
- The second column of Table 4.1 (entitled “6 months”) should include only those persons who completed 6 months of ART.
- The baseline CD4+ count should be obtained any time during the 3-month period prior to starting ART or within 2 weeks after starting ART.
- The 6-month CD4+ count should be obtained within 4 – 7 months after starting ART.
- Because of the lag in getting CD4 test results, we are allowing for a 2-month lag in reporting for the 6- and 12-month cohort. Please use the following table is used to designate 6-month cohorts by reporting period:
- For reporting the quarter ending December 31 – report persons beginning ART in the previous February, March, and April.
- For reporting the quarter ending March 31 – report persons beginning ART in the previous May, June, and July.
- For reporting the quarter ending June 30 – report persons beginning ART in the previous August, September, and October.
- For reporting the quarter ending September 30 – report persons beginning ART in the previous November, December, and January.
- Table 4.2 should include information for persons who have completed 12 months of ART, **except** cell 4.2b should include all persons who began ART in this cohort, even if they did not complete 12 months of ART.
- The second column of Table 4.2 (entitled “12 months”) should include only those persons who completed 12 months of ART.
- If a person on ART transfers out of the facility before getting a 12-month CD4+ count, he or she should be excluded from this table.
- The 12-month CD4+ count should be obtained within 8 – 13 months after starting ART.
- Cohorts should include persons who began ART 14, 15, and 16 months before the end of the current reporting period.

4. ART Program Follow-Up: Number of persons started on ART who were NOT on ART at the end of the quarter

Tables 6.0 and 6.1 are designed to describe the most recent status of persons who started on ART in the grantee's program at the facility at any point since the beginning of the program.

Table 6.1 is an age-disaggregated subset of Lines 1 and 3 in Table 6.0.

- These tables ask for the number of people who were on ART who are NOT on ART at the end of the quarter, disaggregated by the reason they are not on ART.
- These numbers are expected to change from one quarter to another as information is gathered and status can be updated.
- These numbers can go down as well as up. Death is a final state, but people can restart ART after stopping, can transfer back in after having transferred out, and can return to the program after being lost to follow-up.
- We would consider a person as lost to follow up (LTF) if s/he has not been to clinic or picked up drugs for at least 3 months. If your clinic has another definition of LTF, please indicate this when filling out the table.

5. Number of patients on each regimen at the end of the quarter

This part helps to know patients categorized by age and gender on each of all available ARV Drugs regimens. Regimen is a combination of drugs.

Example: AZT+NVP+3TC

N.B. only patients who are active in reporting period are considered and they are subset of table 2.0 and 2.1

MODULE FEATURES

Login page

This is the first page you see on the very first use of OpenMRS, and this is where you have to enter the system by specifying correctly your privileges (username and password).



Figure 1. Login page

Username and password

This is the security page, and once you enter the wrong username or password, you will have to correct it before you can log in, otherwise, you will have to check on the system administrator in order to get help.



Figure 2. Login page with Username and Password

- 1) Where we enter the *username*
- 2) Where we enter the *password*

Administration page

The screenshot shows the OPENMRS Administration page. The top navigation bar includes links for Accueil, Chercher/créer un patient, Dictionnaire, Activités, Module de Base, and Administration. The user is logged in as Peter MIRANDA. The main content area is divided into several sections: Users, Patients, Person, Rencontres, Locations, Observations, Commandes, Concepts, Forms, HL7 Messages, Maintenance, Modules, Logic Module, and Modules de MOH-Trac Plus. A red oval highlights the 'Activités' link under the 'Modules de MOH-Trac Plus' section. A red arrow points from this link to another red oval labeled 'Activities'.

Administration

- Users**
 - Manage Users
 - Manage Roles
 - Manage Privileges
 - Manage Alerts
- Patients**
 - Gérer Patients
 - Chercher patients pour fusionner
 - Manage Identifier Types
- Person**
 - Manage Relationship Types
 - Manage Person Attribute Types
- Rencontres**
 - Gérer rencontre
 - Manage Encounter Types
- Locations**
 - Manage Locations
- Observations**
 - Manage Observations
- Commandes**
 - Gérer commandes
 - Gérer régime de médicaments
 - Manage Order Types
- Concepts**
 - View Concept Dictionary
 - Manage Concept Drugs
 - Manage Proposed Concepts
 - Update Concept Words
 - Derive Concept Sets
 - Manage Concept Classes
 - Manage Concept Datatypes
 - Manage Concept Sources
- Forms**
 - Manage Forms
 - Manage Fields
 - Manage Field Types
- HL7 Messages**
 - Manage Queued Messages
 - Manage Deleted Messages
 - Manage HL7 Errors
- Maintenance**
 - Set Implementation Id
 - System Information
 - Audit Patient Identifiers
 - View Quick Reports
 - Manage Global Properties
 - View Server Log
 - View Database Changes
- Modules**
 - Manage Modules
 - Module Properties
- Logic Module**
 - Register Default Logic Rules
 - Logic Module Tester
- Modules de MOH-Trac Plus**
 - Activités

Activities

Figure 3. Administration page

On this page is displayed many things including a link called activities where you can take a module of choice.

Activities

The screenshot shows the OPENMRS Activities page. The top navigation bar includes links for Home, Find/Create Patient, Dictionary, Activités, and Administration. The user is logged in as USER NYINAWUMUNTU. The main content area has tabs for Modules, Administration, and General. Under the 'Modules' tab, there is a list of modules: Quarterly Reporting, Quarterly HIV Care and ART Reporting, ARV REGIMENS MONTHLY REPORT, and HIV Drugs Reporting. A red box highlights the 'Quarterly HIV Care and ART Reporting' module. A red arrow points from this module to a circle containing the number '0'.

Activities

Modules Administration General

- Quarterly Reporting
- Quarterly HIV Care and ART Reporting
- ARV REGIMENS MONTHLY REPORT
- HIV Drugs Reporting

0

Figure 4. Quarterly HIV Care And ART Reporting Module

This brings someone to the page where are displayed different openMRS modules so that he can access directly the **Quarterly HIV Care And ART Reporting [0]**.

Main Page

Quarterly HIV Care and ART Reporting

Select Period

Quarter: ---Select--- Year: 2011

Find

1 2 3

- (1) This is a search button used to make user's request
- (2) List of year's quarters
- (3) Years

Figure 5. Home page

Statistics Page

Quarterly HIV Care and ART Reporting

Select Period

Quarter: ---select--- Year: 2010

Find

[Print](#)

Quarter beginning(dd-mm-yyyy) 01-01-2005 Quarter ending(dd-mm-yyyy) 31-03-2005

1.0 HIV Palliative Care (non-ART and ART care)				
	Cumulative number enrolled in HIV care by the beginning of quarter	NEW enrollees in HIV care during the quarter	Cumulative number enrolled in HIV care by the end of the quarter	Total number who received HIV care during the quarter
Males (0-14 years)	84	23	107	59
Males (15+ years)	142	28	170	107
Females (0-14 years)	100	27	127	80
Females (15+ years)	288	46	334	221
Total	614	124	735	467
Number in HIV care during the quarter & eligible for ART, but NOT started ART by the end of the quarter				59

1.1 Pediatric HIV Palliative Care (non ART and ART care)						
Males (0-1 year)	0	4	4			4
Males (2-4 years)	10	2	12			14
Males (5-14 years)	68	11	79			37
Females (0-1 year)	5	1	6			2
Females (2-4 years)	9	1	10			5
Females (5-14 years)	77	21	98			64

2.0 ART Care						
	Cumulative number started on ART by the beginning of the quarter	Number started on ART in program during the quarter (includes NEW and TRANSFERS)	Cumulative number started on ART by the end of the quarter	Number NEW on ART during the quarter	Number on ART who TRANSFERRED in during the quarter	Total number on ART at the end of the quarter (CURRENT)
Males (0-14 years)	0	8	8	8	0	8
Males (15+ years)	3	14	17	14	0	17
Females (0-14 years)	2	8	10	8	0	10
Females (15+ years)	2	37	39	37	0	39
Total	7	67	74	67	0	74
Pregnant females (subset of total)	0	0	0	0	0	
				No. of persons on ART at the end of the quarter who were treated with USG-funded ART		

4.1 Change in CD4+ count and adherence to ART for 6-month cohort (Patient >6 years)			4.2 Change in CD4+ count and adherence to ART for 12-month cohort (Patient >6 years)		
	Baseline	6 months		Baseline	12 months
Months when cohort started ART	01-07-2004		Months when cohort started ART	01-01-2004	
Number of persons in cohort	0	222	Number of persons in cohort	21	398
No. in cohort who received ARVs for 6 out of 6 months	0	60	No. in cohort who received ARVs for 6 out of 6 months	2	339
Median CD4+ count for cohort	0.0	167.0	Median CD4+ count for cohort	779.0	167.0
No. in cohort who received ARVs for 6 out of 6 months		427	No. of persons in cohort who received ARVs for 12 out of 12 months		583

5. Number of patients on each regimen at the end of the quarter						
Regimens	0-1	2-4	5-14	Total 0-14	+15	Total
Zidovudine sirop	0	0	0	0	0	0
test	0	0	0	0	0	0
zido200/lam/nev	0	0	0	0	13	13
ef50/ef200/ef600	0	0	0	0	0	0
179 drugs	0	0	0	0	13	13
new1	0	0	0	0	0	0

Figure 6. Statistics Page

This is a printable page but someone can display the patients corresponding to the number and export them into excel for some analyses.

Printing the page

OPENMRS

Currently logged in as Peter MIRANDA | [Sortir](#) | [Mon profil](#) | [Aide](#)

Accueil | Chercher/créer un patient | Dictionnaire | Activités | Module de Base | Module de Base | Administration

Quarterly HIV Care and ART Reporting

Select Period

Quarter: ---select--- Year: 2010

Find

Print

Quarter beginning(dd-mm-yyyy) 01-01-2005 Quarter ending(dd-mm-yyyy) 31-03-2005

1.0 HIV Palliative Care (non-ART and ART care)				
	Cumulative number enrolled in HIV care by the beginning of the quarter	NEW enrollees in HIV care during the quarter	Cumulative number enrolled in HIV care by the end of the quarter	Total number who received HIV care during the quarter
Males (0-14 years)	84	23	107	59
Males (15+ years)	142	28	170	107
Females (0-14 years)	100	27	127	80
Females (15+ years)	288	46	334	221
Total	614	124	735	467

Number in HIV care during the quarter & eligible for ART, but NOT started ART by the end of the quarter: 59

Figure 7. Printing the page

View Patients

View the patients and export them in excel

OPENMRS

Currently logged in as Peter MIRANDA | [Sortir](#) | [Mon profil](#) | [Aide](#)

Accueil | Chercher/créer un patient | Dictionnaire | Activités | Module de Base | Module de Base | Administration

Quarterly HIV Care and ART Reporting

Select Period

Quarter: ---select--- Year: 2010

Find

Print

Quarter beginning(dd-mm-yyyy) 01-01-2005 Quarter ending(dd-mm-yyyy) 31-03-2005

1.0 HIV Palliative Care (non-ART and ART care)				
	Cumulative number enrolled in HIV care by the beginning of the quarter	NEW enrollees in HIV care during the quarter	Cumulative number enrolled in HIV care by the end of the quarter	Total number who received HIV care during the quarter
Males (0-14 years)	84	23	107	59
Males (15+ years)	142	28	170	107
Females (0-14 years)	100	27	127	80
Females (15+ years)	288	46	334	221
Total	614	124	735	467

Number in HIV care during the quarter & eligible for ART, but NOT started ART by the end of the quarter: 59

total number of patients

who received HIV Care during the quarter (from 01-Jan-2005 to 31-March-2005) = 467

Figure 8. View Patients

Once you click on the number the corresponding patients and their identifications are displayed :

Patients' details

Excel

Show 10 entries

Search:

IDENTIFIER	GIVEN NAME	FAMILY NAME	AGE	GENDER	
05558	Richard	INKA	40	♀	View Dashboard
100008	Edward	AKAGERA	15	♀	View Dashboard
100009	Kim	RUKIRA	46	♀	View Dashboard
100014	Sara	GATOTO	29	♀	View Dashboard
100020	Adam	RUGENDO	53	♂	View Dashboard
100029	Mary	GAHINI	13	♀	View Dashboard
100031	Cynthia	NIZEYE	38	♀	View Dashboard
100034	Kelly	NIZEYE	77	♀	View Dashboard
100036	Anne	GUKINA	41	♀	View Dashboard
100036			41	♀	View Dashboard

Showing 1 to 10 of 467 entries

English (United)

First Previous 1 2 3 4 5 Next Last

Figure 8. Patients' details

This page has a buttons which helps to export these patients and their more details (CD4 Count, Viral Load and Weight) into excel.

Data Export

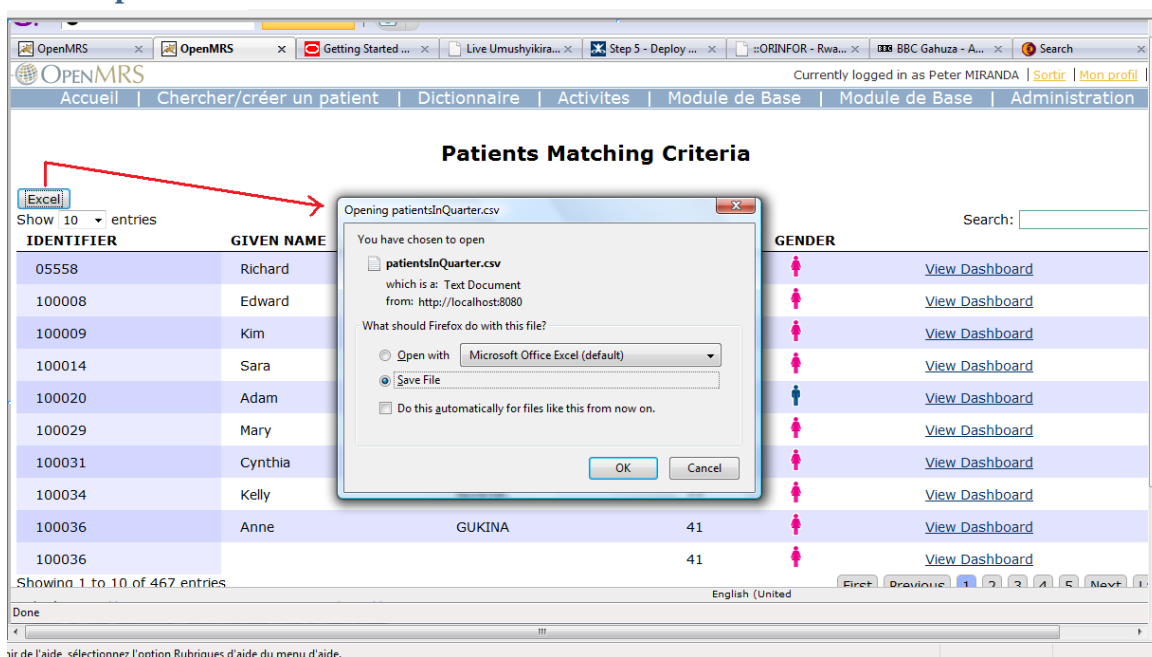


Figure 9. Export data

	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	FAMILY N	GIVEN NA	GENDER	FIRST WEIGHT(kg)	LAST WEIGHT(kg)	CD4 COUNT	START DATE	END DATE									
1	Bill	MUKAYOYM		7.0(2005-03-21)	7.0(2005-03-21)												
2																	
3	Alice	KIREHE	M	6.0(2005-02-28)	5.0(2006-01-27)		12/12/2004	28/02/2005	Nevirapine sirop (10mg/ml) from 12-12-2004 to 12-12-2005 because TREATMENT COMPLETE								
4							28/02/2005	12/12/2005	##### Cotrimoxazole sirop from 28-02-2005 Nevirapine sirop (10mg/ml) from 12-12-2004 to 12-12-2005								
5									21/12/201 Cotrimoxazole sirop from 28-02-2005								
6																	
7																	
8	Katie	NKONDO	M	6.0(2005-03-16)	6.0(2005-03-16)		16/03/2005	21/12/201	Cotrimoxazole(480) from 16-03-2005								
9																	
10																	
11																	
12																	

Figure 10. Excel sheet

This excel sheet contains many patients' details such as

- Patient Identification(Family Name, Given name, age, gender)
- Different concepts evolution meaning that if the patient has taken more than one regimen, you should see how some concepts like CD4 Count, Viral Load and Weight have changed.
- Patients' regimens (and start and end date for each regimen)