



Organisation of
Eastern Caribbean
States

Case Based Surveillance System

Electronic Case-based Surveillance System

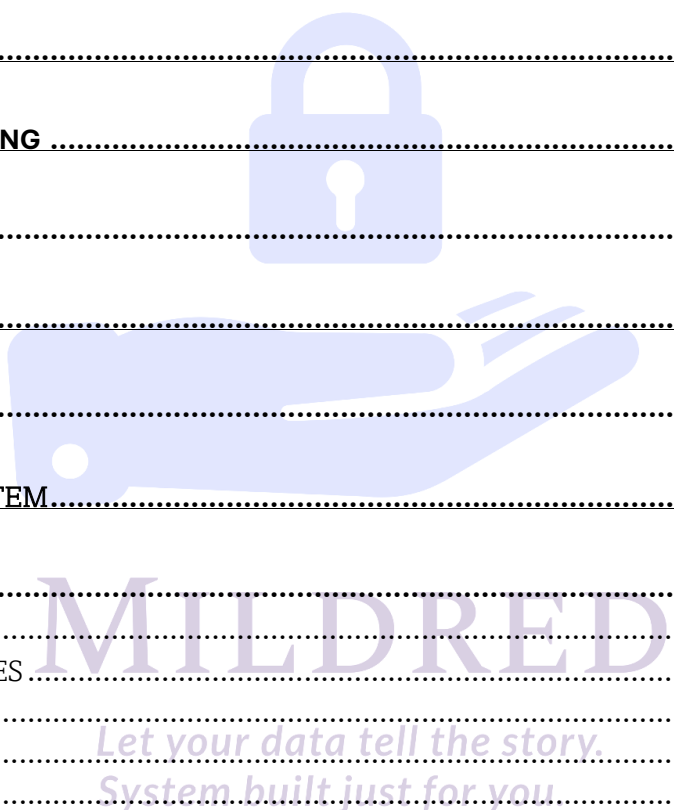
End-user Manual

Patient Management and Reporting System

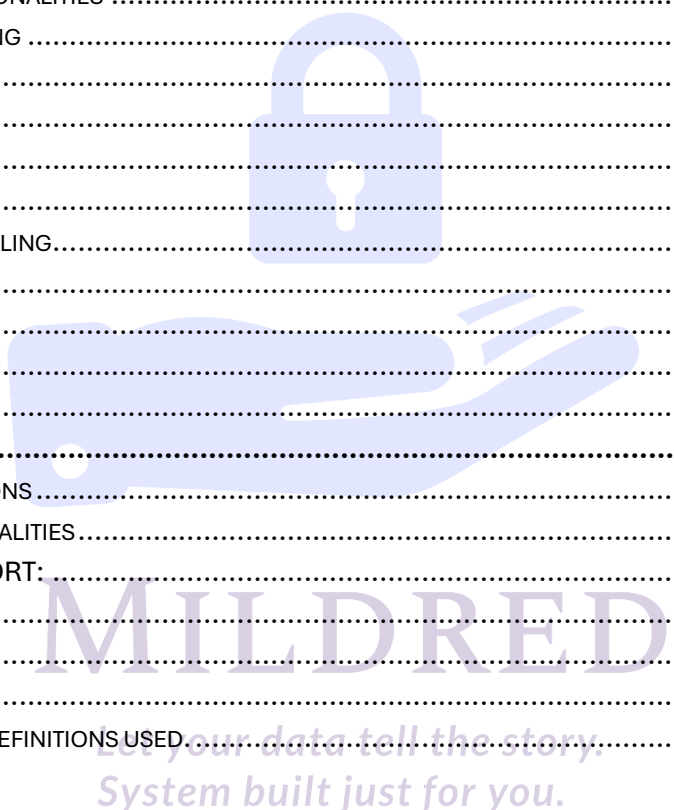
Virtual Training Workshop Portal

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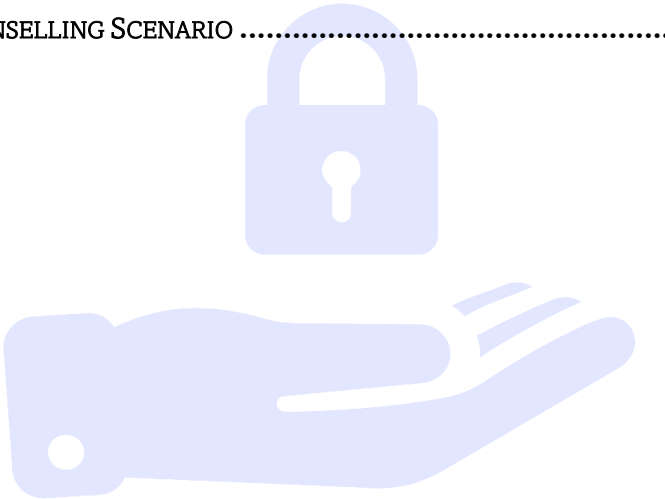
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1 SYSTEM OVERVIEW

The electronic case-based surveillance system holds two independent systems and an API

1. A Virtual Training Workshop Portal.
2. A Patient Management and Reporting System.

The **Virtual Training Workshop Portal** uses role-based authentication and authorization, meaning that only users assigned a role can access all its functionalities.

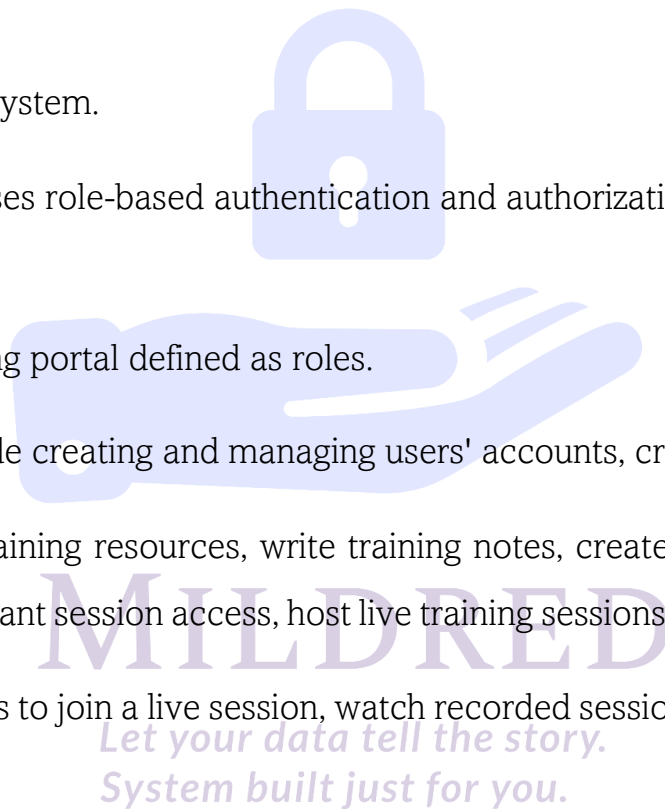
There are four main modules of the training portal defined as roles.

Developer: This role's functionalities include creating and managing users' accounts, creating training workshops, and supervising.

Facilitator: The Facilitator can upload training resources, write training notes, create training announcements, create a training schedule, create participants' schedules, grant session access, host live training sessions, create assessments, and provide feedback.

Guest: This role's functionalities allow users to join a live session, watch recorded sessions, and access training workshop resources and announcements.

Participant: The functionalities within this role allow users to join a live session, watch recorded sessions, take an assessment, view assessment feedback, and access training workshop resources and announcements.



The **Patient Management and Reporting System** uses role-based authentication and permission-based authorization. Its three modules are defined as roles.

Administration: This role's functionalities are consistent with those of I.T. support staff, administrators, and supervisors. Permission exists to create and manage user accounts, configure the system, change a client's address, track risk and pregnancy histories, and supervise data entry.

Screenings and Management: This role's functionalities align with the job description of VCT providers, Laboratories, STI / IDC Care and Management Clinic Teams, ANC clinics, central medical stores, pharmacies, counselors, and Hospitals.

Monitoring and Reporting: Functionalities within this role help surveillance officers and statisticians generate reports automatically. The system analyzes all data collected in real-time and creates visualized reports of aggregated and disaggregated data.

The patient management and reporting system's three roles consist of fine-grained permissions that allow or restrict user's access to a group of related functionalities.

2 GETTING STARTED INFORMATION

Users should receive an activation email when creating an account (Figures 1 and 2). The email holds the activation/password setting link (Figures 3 and 4). Check the spam folder before contacting the supervisor to see if an email still needs to be received.

Users must access the email for the following reasons:

1. The activation email allows users to set their password; without the password, users cannot log into the system.

2a. The activation link also contains the confidentiality agreement of the Patient Management and Reporting System. Before accessing the patient system, you must sign the agreement electronically by selecting the 'I agree' option and creating your password (Figure 5).

2b. The activation link contains the password-setting form for the virtual training workshop portal. Please create a password, click Continue to set it, and activate the account (Figure 6).

To log in to the ***patient management and reporting system***, click the icon at the top right of the home page to reveal the log-in link (Figure 7) and click 'Login to Patient Management & Reporting System.' Fill out the login form in the content area with the email address and password set during account activation (Figure 8). Or click on the login button beneath the Patient Management and Reporting System heading in the page's main content area.

To log in to the ***virtual training workshop portal***, click the icon at the top right of the home page to reveal the log-in link (Figure 7). Click on Login to Virtual Training Workshop Portal.' Fill out the login form in the content area with the email address and password set on account activation (Figure 9). Or click on the login button beneath the Virtual Training Workshop Portal heading in the page's main content area.

3 ACCOUNT ACTIVATION AND PASSWORD SETTING

All users should get an activation email (Figures 1 and 2). The email contains a link (Figures 3 and 4) to sign the confidentiality agreement (for the patient management system only) and set the password (Figures 5 and 6). This process activates the user's account. On successful activation, the system redirects the user to the log-in page.

ACCOUNT ACTIVATION

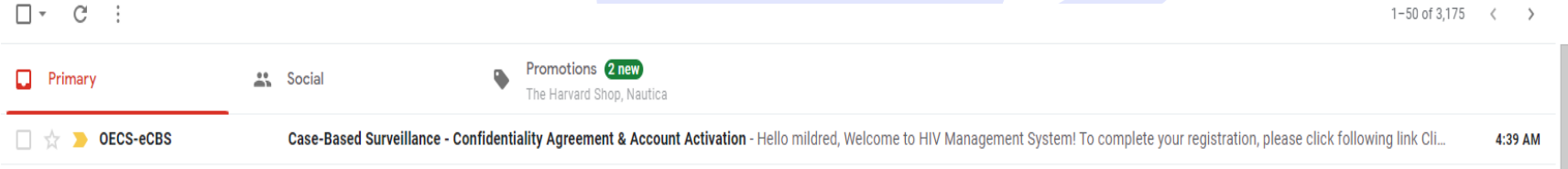


Figure 1: Image of the account activation email received from the patient management and reporting system

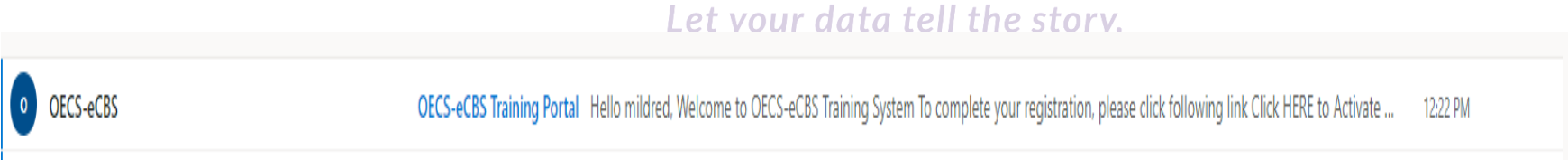


Figure 2: Image of the account activation email received from the training portal



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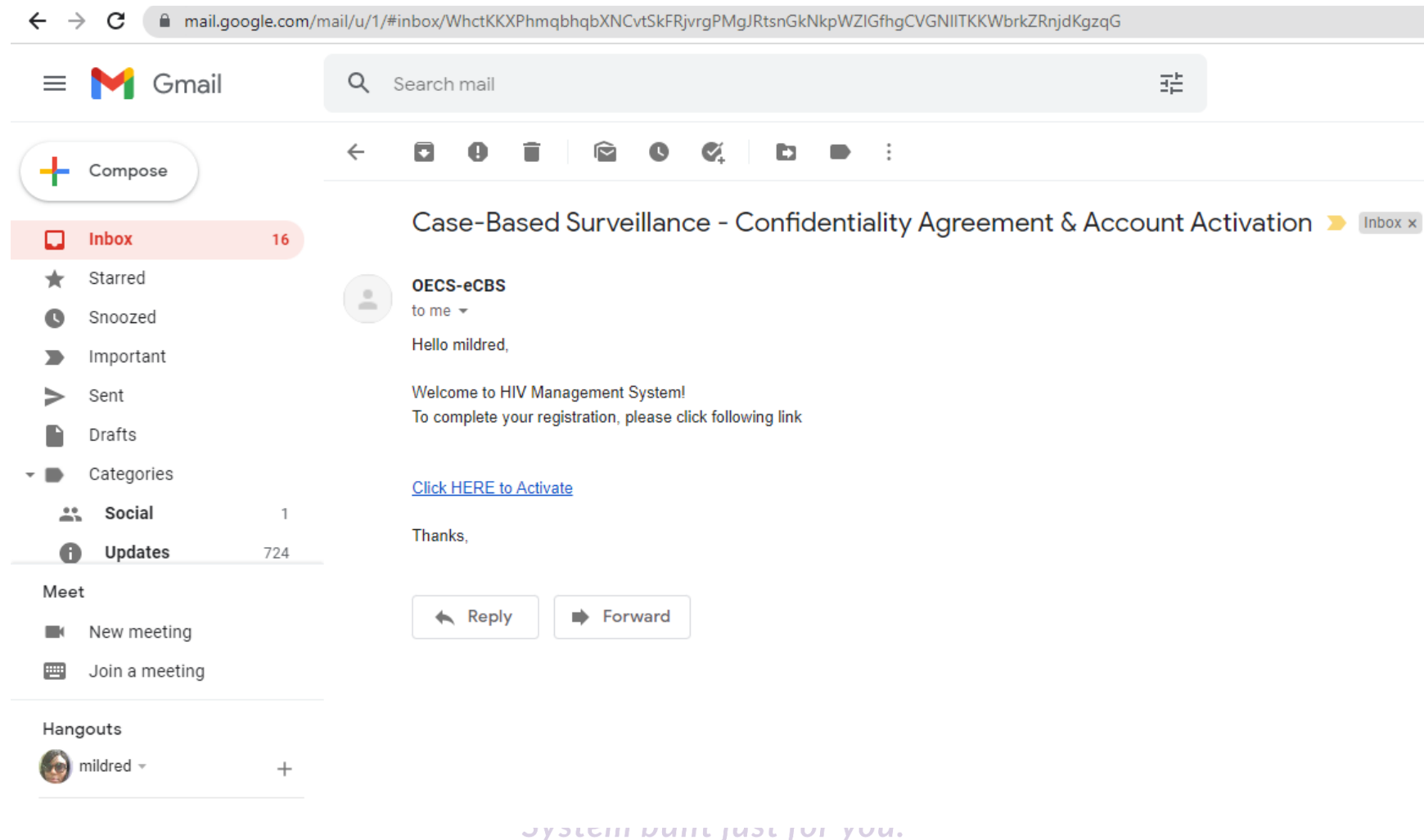


Figure 3: Image of the content of the activation email, showing the link to activate the account for the patient management and reporting system.

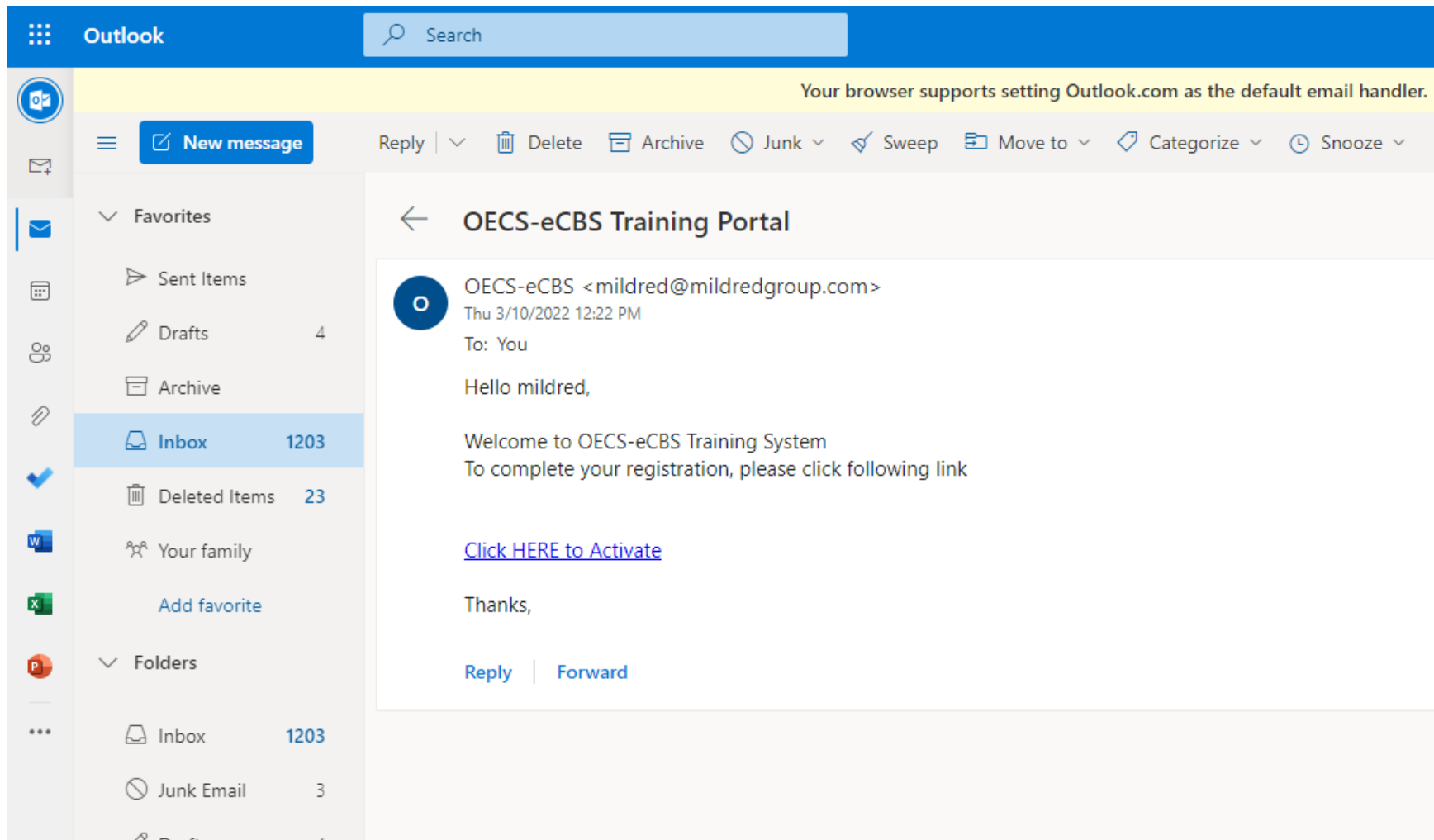
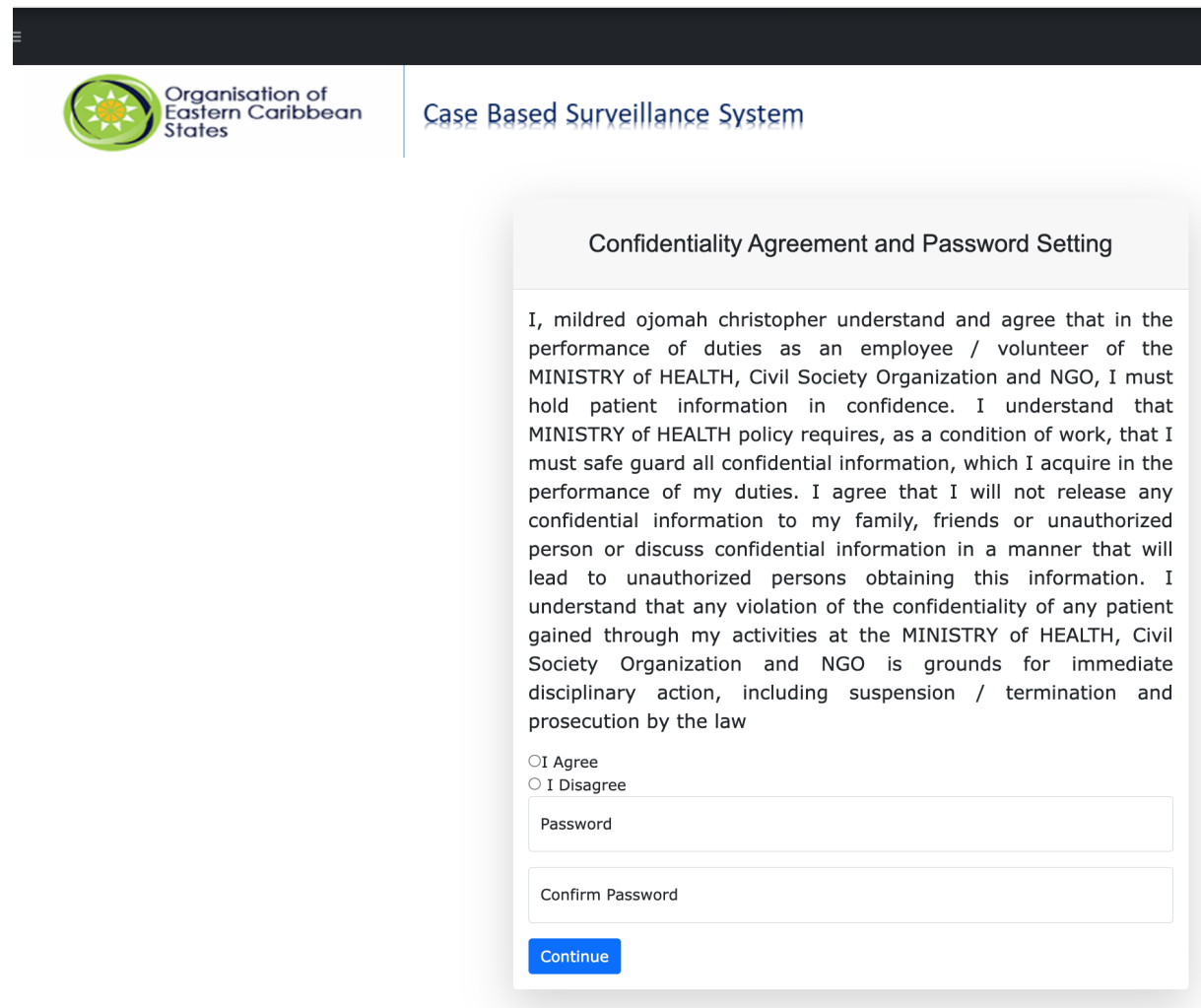


Figure 4: Image of the content of the account activation email showing the link to activate the account for the virtual training workshop portal.



The screenshot shows a web interface for the Organisation of Eastern Caribbean States (OECS) Case Based Surveillance System. The header includes the OECS logo and the system name. The main content area is titled "Confidentiality Agreement and Password Setting". It contains a paragraph of text stating that the user, Mildred Ojomah Christopher, understands and agrees to hold patient information in confidence and not release it to unauthorized persons. Below the text are two radio buttons for "I Agree" and "I Disagree". There are also two text input fields for "Password" and "Confirm Password", and a blue "Continue" button at the bottom.

Organisation of Eastern Caribbean States

Case Based Surveillance System

Confidentiality Agreement and Password Setting

I, mildred ojomah christopher understand and agree that in the performance of duties as an employee / volunteer of the MINISTRY of HEALTH, Civil Society Organization and NGO, I must hold patient information in confidence. I understand that MINISTRY of HEALTH policy requires, as a condition of work, that I must safe guard all confidential information, which I acquire in the performance of my duties. I agree that I will not release any confidential information to my family, friends or unauthorized person or discuss confidential information in a manner that will lead to unauthorized persons obtaining this information. I understand that any violation of the confidentiality of any patient gained through my activities at the MINISTRY of HEALTH, Civil Society Organization and NGO is grounds for immediate disciplinary action, including suspension / termination and prosecution by the law

☐ I Agree
☐ I Disagree

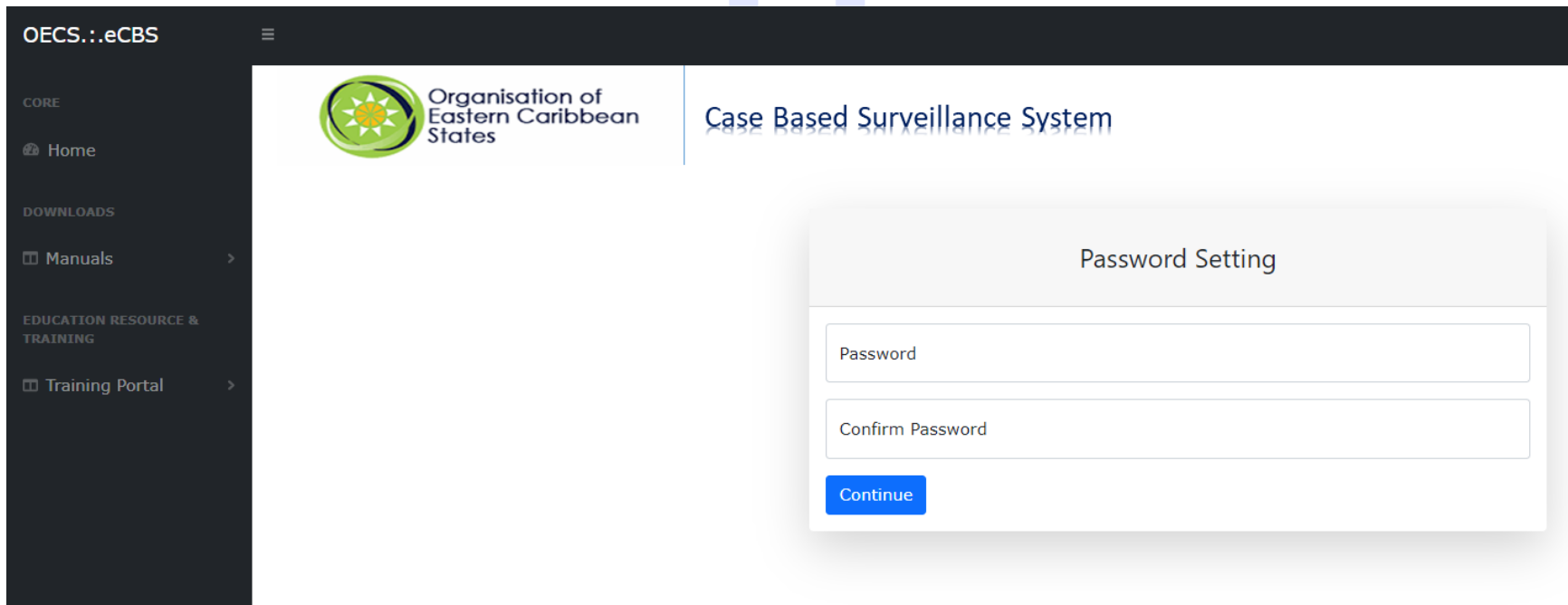
Password

Confirm Password

Continue

Figure 5: Image of the page after clicking on the account activation link for the patient management and reporting system

NOTE: The system does not enforce password criteria. It is up to the user to create a secure and strong password. As a suggestion, users can use sentences backward to form a strong password. Using the same password across systems is not a good idea, as it subjects the system's security to the security of the weakest link.



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CORE

Home

DOWNLOADS

Manuals

EDUCATION RESOURCE & TRAINING

Training Portal

Organisation of Eastern Caribbean States

Case Based Surveillance System

Password Setting

Password

Confirm Password

Continue

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Figure 6: Image of the page after clicking the account activation link for the virtual training workshop portal. Create a password and click continue to activate the account.

4 LOG IN TO THE SYSTEM.

The user icon is at the top-right corner of the home page. Click on it to reveal the menu. The menu contains links to Log in to the Patient Management & Reporting System and the Virtual Training Workshop Portal (Figure 7). You can also click the login button beneath each heading in the main content area.

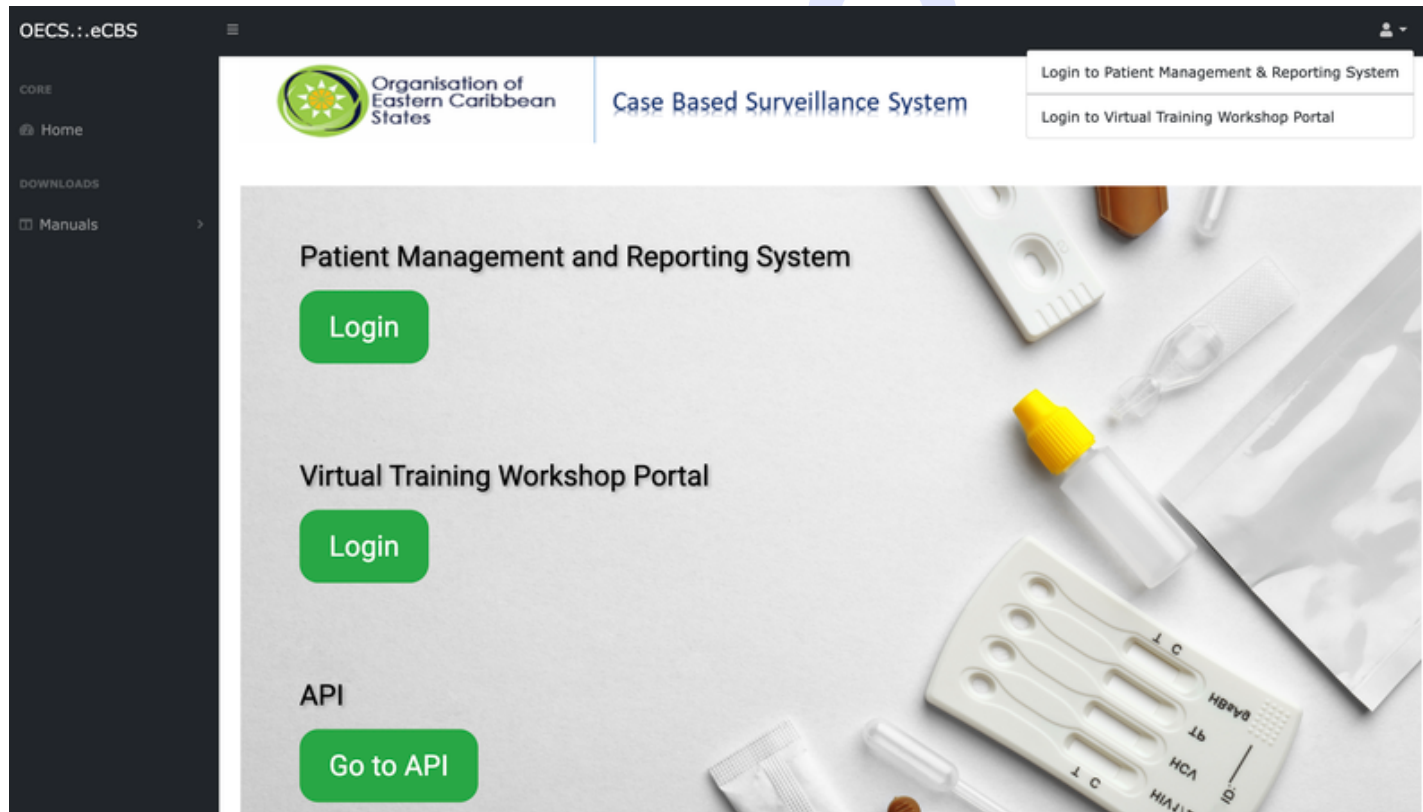


Figure 7: Image of the home page showing the log-in links at the top-right of the page and a form where clients can report their self-test results.

Organisation of Eastern Caribbean States

Case Based Surveillance System

Identify yourself

Email address

Password

Login

Lost your Password or don't have a password? [Click Here](#)

Figure 8: Image of the 'login to patient management and reporting system' page

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CORE

Home

DOWNLOADS

Manuals

EDUCATION RESOURCE & TRAINING

Training Portal

Organisation of Eastern Caribbean States

Case Based Surveillance System

Training and Certification

Identify yourself

Email address

Password

Login

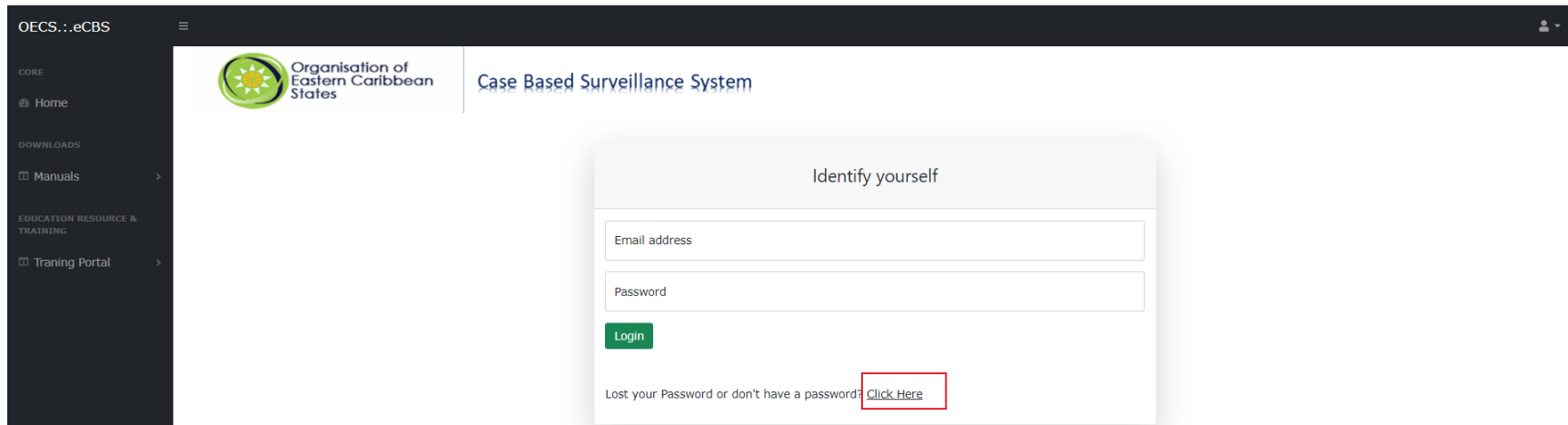
Lost your Password or don't have a password? [Click Here](#)

Figure 9: Image of the 'login to virtual training workshop portal' page

4.1 PASSWORD RESET

The login page contains a link to the forgotten password page (Figure 10). When a user clicks on this link, enters their email address, and clicks on the send link button (Figure 11), the system sends an email to the entered email address (if it is valid). The email contains the password reset link. Click on the link and enter the new password.

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Case Based Surveillance System

Identify yourself

Email address

Password

Login

Lost your Password or don't have a password? [Click Here](#)

Figure 10: Image showing a link to reset the password for the patient management and reporting system - circled in red

Do not use the password reset link before account activation.

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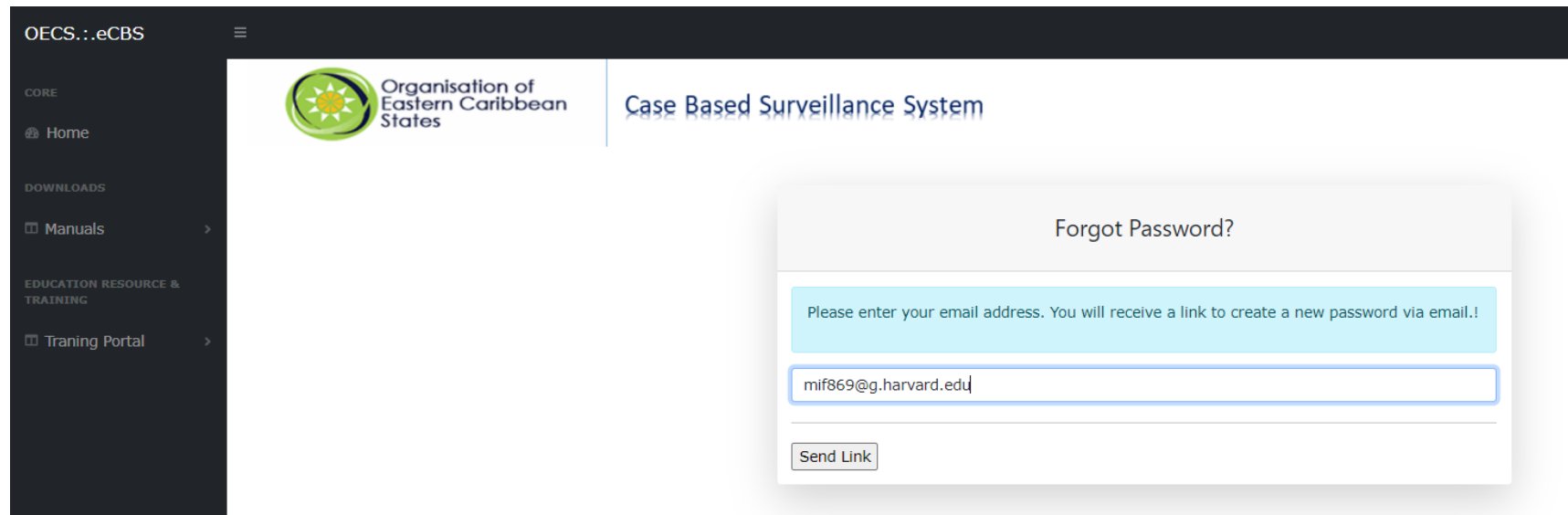


Figure 11: Image of the password reset page after clicking on the forgot password link from image 10

This process is the same for the Virtual Training Workshop portal.

Note that the password resets for both systems are different. If users use the reset on the Patient Management & Reporting System, the reset applies only to that system. The password change applies only to that system if users use the reset on the Training portal log-in form.

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5 PATIENT MANAGEMENT & REPORTING SYSTEM

After successful authentication (login), the authorization process begins. The functionalities available to the user depend on the permission(s) granted. On successful login to the Patient Management and Reporting System, the user is redirected to the home page of their assigned role.

5.1 THE ADMINISTRATION ROLE

The administration role includes functionalities for system configuration, user account creation and management, supervision, client history tracking, and client account retrieval. It is best suited for I.T. staff, superusers, and supervisors. A user assigned this role is authenticated and redirected to the administration homepage. The system checks the permissions assigned to the authenticated user and authorizes their respective functionalities based on those permissions.

5.1.1 THE ADMINISTRATION ROLE PERMISSIONS

system_configuration: This permission allows a user to configure the system with dynamic variables before initial system use and update the information as it changes. It also holds the forms for entry of surveillance supporting variables. All users assigned this permission can access a Configuration sub-menu included in the Pages menu Items.

user_account: This permission allows a user to create a user's account, manage users' accounts (view account info, update account info, grant and revoke permissions), register a pharmacist, retrieve the client's missing unique I.D., update the client's personal information and assign users to a site.

supervise_screenings: This permission allows supervisors to supervise data entry per site and obtain exportable tables of reports on pending care registration, the list of clients in care, all T.B., HIV, Syphilis, and other routine screenings recorded on the system, all ANC—HIV, T.B., Syphilis, Hepatitis, and other screenings, all exposed infant screenings, registration information, and all prevention materials distributed (self-test results recorded, self-test kits given, condoms given).

history_tracking: This permission allows users to track a client's screenings and pregnancy and address change histories.

5.1.2 THE ADMINISTRATION ROLE FUNCTIONALITIES

The left-side menu on the administration home page holds the manuals and links to functionalities. This role has four permissions linked to a group of related functionalities. Two groups of functionalities are not permission-controlled, meaning that any user assigned the Administration role has access to them. A user's log-in authenticates them to the home page of their assigned role; permission authorizes them to perform the functionalities controlled by the permissions.

5.1.2.1 API CONFIGURATION

Refer to the API manual to learn about this group of functionalities.

5.1.2.2 UPLOAD OFFLINE DATA

This template is downloaded from the system as an Excel spreadsheet and uploaded back to the system after it has been filled in with all the relevant / required information.

The template use can be categorized into two:

1. Configuration and upload by the administrator.
2. Data collection and conversion by the end users.

The model of use depends on the role of the user

5.1.2.2.1 CONFIGURATION – FOR ADMINISTRATORS

A user assigned the administration role of the patient management and reporting system has access to this functionality regardless of the permissions assigned.

The Administration Role is the only role that can download and configure a template for distribution to the end users.

Log in to the Patient Management and Reporting System as an administrator. Expand the Pages menu on the left side and select the Upload Offline Data submenu, as shown in Figure 12.

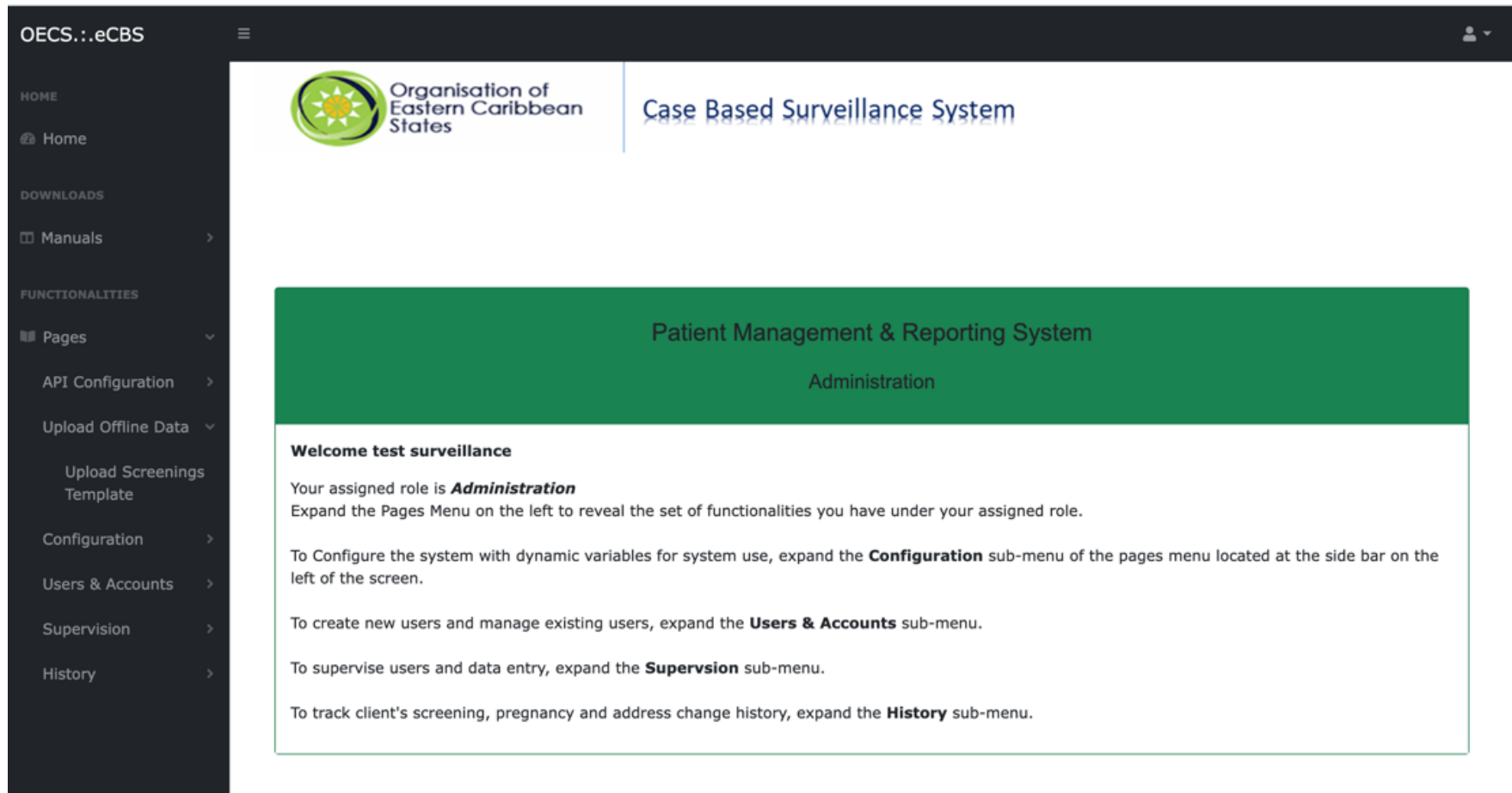


Figure 12: Administration homepage showing API configuration List

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Expand the menu to reveal the upload screenings template functionality. Click on this link to reveal the page where you can download a new template and upload a completed one.

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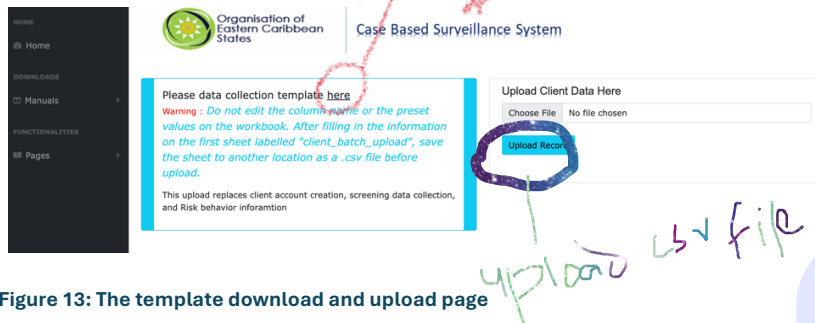


Figure 13: The template download and upload page

The main content area of the page has two sections. On the left, click the link highlighted in red in Figure 13 above to download an Excel spreadsheet. Once downloaded, verify that the setting on the sheet matches the system's configuration values.

5.1.2.2.1 CONFIGURATION SETTINGS

Site Name	Status	Actions
Antigua and Barbuda	activated	
Dominica	activated	
Grenada	activated	
Saint Kitts and Nevis	activated	
Saint Vincent and the Grenadines	activated	
Guest	activated	
Partners	activated	
Emergency Room	activated	
Infectious Disease Clinic	activated	

Figure 14: Side-by-side comparison of the worksheet and values configured on the system for the testing and management sites

The downloaded workbook consists of 21 sheets labeled:

- Client_batch_upload
- Result
- Test types
- Modality
- Sex_partners
- Education
- Ethnicity
- Month
- Facility_type
- Testing_sites
- Options
- Condom use
- Sex
- Sexactivities
- Sexual_orientation
- Gender_identity
- Parish
- Occupation
- Health_district
- Marital_status
- Country



The **client_batch_upload** sheet is the main sheet where all data should be entered. The rest of the sheets hold control values for the drop-down menu on the main sheet. Before distributing the workbook, ensure that the values in the following sheets match precisely those entered for the system configuration.

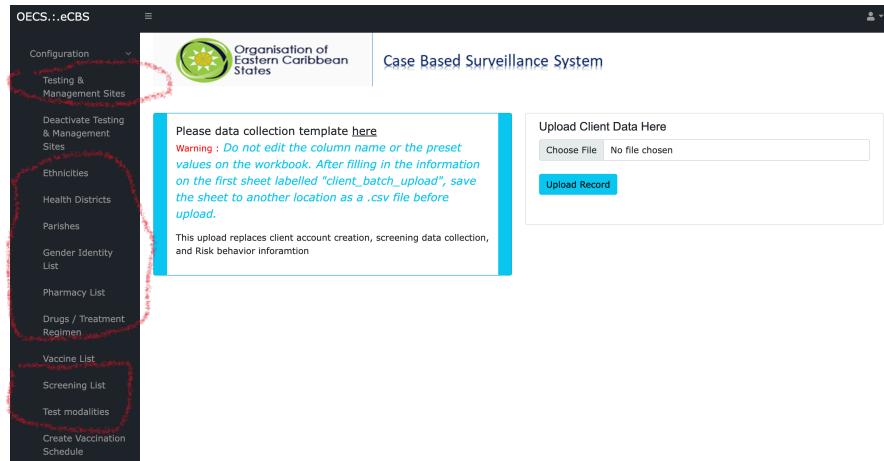


Figure 15: Configurations to match

Sheet—Test types: From the configuration menu, select the Screening List link and ensure that the values configured there are identical to those on this sheet.

Sheet—Modality: From the configuration drop-down menu, select the Test modalities link and change the values of this sheet to match those configured for the test modalities.

Sheet—Ethnicity: From the configuration drop-down menu, select the ethnicities link and ensure the values match those on the sheet.

Sheet - Testing sites: From the configuration drop-down menu, select the Testing and Management Sites link and ensure you have identical values on this sheet.

Sheet—Gender_identity: From the configuration drop-down menu, select the Gender Identity List link and ensure that the values on this sheet match those on the other sheets.

Sheet- Parish: From the configuration drop-down menu, select the parishes link and ensure that the values on this sheet match those configured here.

Sheet - Health_district: From the configuration drop-down menu, select the health district link and ensure that the values configured match the values on this sheet.

Generally, do not delete or edit the first cell value. For example, in Figure 14, the first cell value of the spreadsheet for the testing sites is testing_sites. Leave this value as is. Do the same for all other sheets.

Do not edit the workbook's sheet names or the column headings in the main (client_batch_upload) sheet.

Once all the values are matched, the workbook should be saved for distribution to the end users.

Also, note that the edited worksheet is a copy of the sheet from the system. Anytime a new sheet is downloaded, the same configuration steps must be completed.

5.1.2.2.2 TEMPLATE USE FOR END-USERS

Once the supervisor provides a configured workbook, fill in only the sheet labeled client_batch_upload, ensuring all values are entered.

Please watch this [video](#) for a tutorial on adequately filling in the sheet.

The workbook is an Excel file containing binaries of all the workbook settings. The system will not accept this format. We need the data in plain text format before sending it to the supervisor. Once all data is collected on the

sheet, save only that active sheet as a CSV file by selecting 'save as' from the file menu and choosing the CSV (UTF-8 comma-delimited) option.

5.1.2.2.3 TEMPLATE UPLOAD – ADMINISTRATOR

After receiving a completed sheet, ensure all required values for each client are filled correctly. Log back in as an administrator, and on the upload offline data page, as shown in Figure 13, select choose file, navigate to the directory where you have the filled-in CSV version of the offline file, select it, and upload. If all is well, you should see some information on the page in the sky-blue banner. Read all information carefully. Pay attention to any error message and report with a screenshot if you encounter any.





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5.1.2.3 CONFIGURATION

For all users granted the **system_configuration** permission, expanding the page's menu reveals a Configuration sub-menu.

The Configuration sub-menu, when expanded, reveals links to do the following:

a. **Testing and Management sites:** Create and update all the testing and management sites/hospitals/clinics for HIV, TB, Viral Hepatitis, ANC, and other STIs.

The configuration menu's testing and management sites sub-menu links to a page with the creation, update, and delete form.

On the left of the main content is a form to create new sites. Use the 'Add Row' button to add new rows. After adding the sites, click the 'Save' button to save all the entries. To the page's right is a form that lists all the saved sites for update/delete. (See Figure 16). Deleting an entry should be the last option due to the undesirable effect it might produce.

Change the field and click the green edit button to update an entry. Then, click on the red trash sign beside the row to delete it.

This should be done one row at a time.

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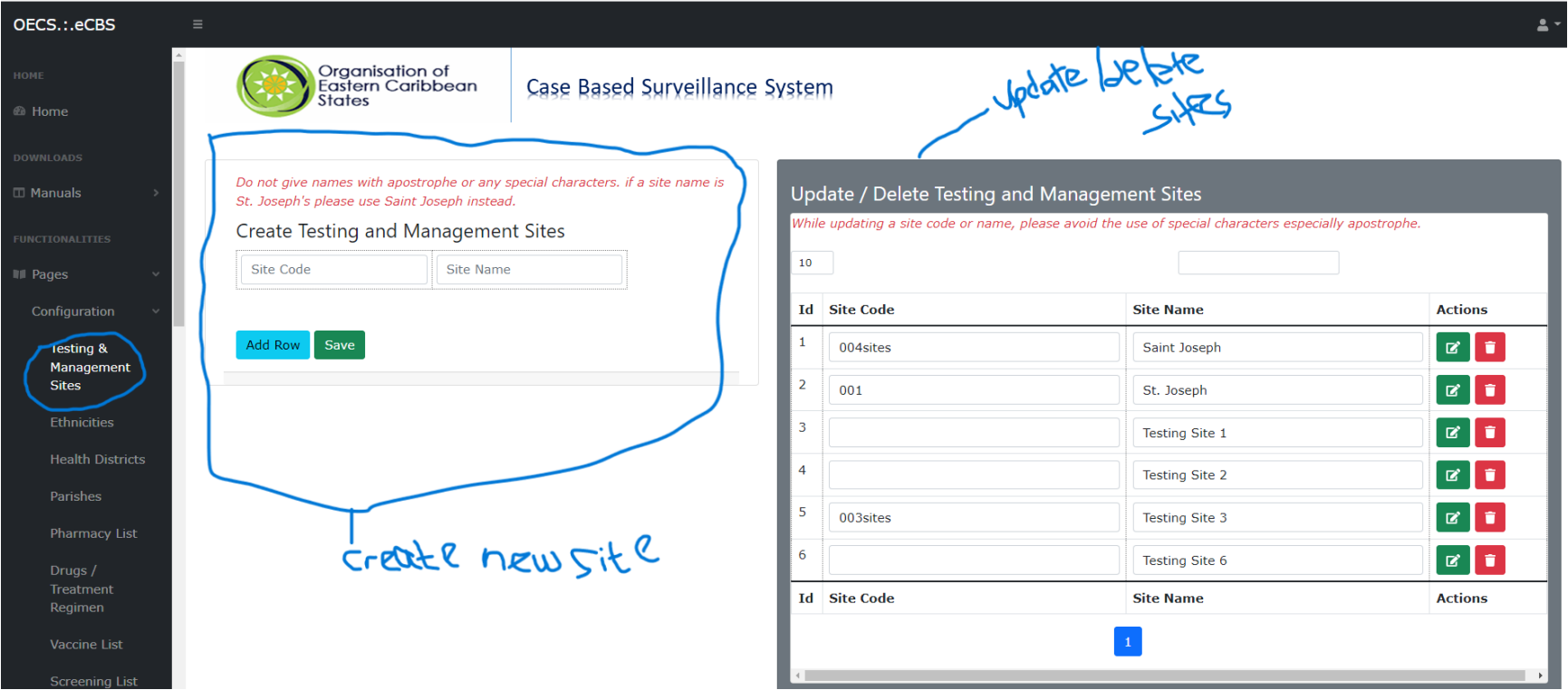


Figure 16: Image showing the testing and management site configuration page

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b. **Ethnicities:** Create/update all the recognized ethnicities in the country.

The creation, update, and deletion of ethnicities follow the same pattern as the testing and management sites. Click on the Ethnicities sub-menu of the configuration menu to display the page similar to the testing and management sites and follow the same procedure.

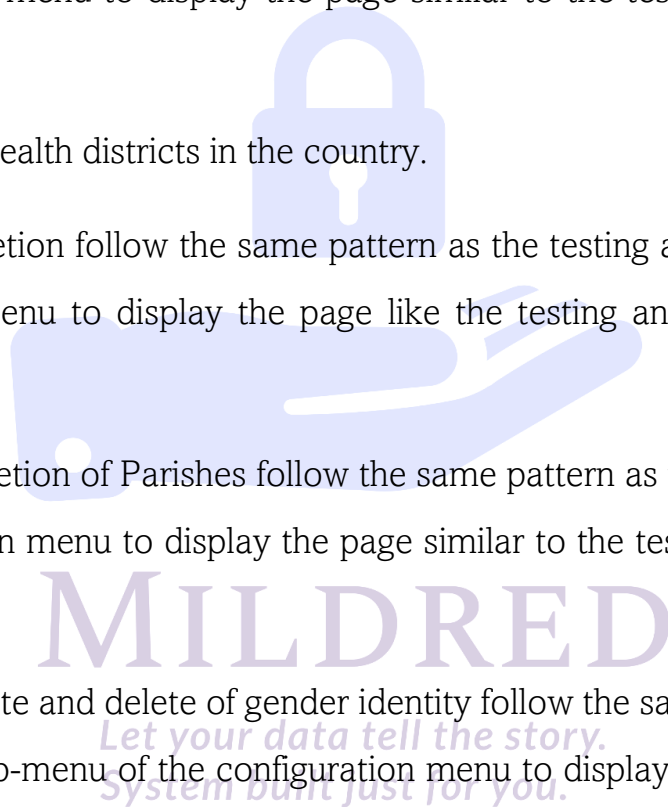
c. **Health District:** Create/update all the health districts in the country.

Health districts' creation, update, and deletion follow the same pattern as the testing and management sites. Click on the Health District sub-menu of the configuration menu to display the page like the testing and management sites and follow the same procedure.

d. **Parishes:** The creation, update, and deletion of Parishes follow the same pattern as the testing and management sites. Click on the Parishes sub-menu of the configuration menu to display the page similar to the testing and management sites and follow the same procedure.

e. **Gender identity list:** The creation, update and delete of gender identity follow the same pattern as the testing and management sites. Click on the Gender Identity List sub-menu of the configuration menu to display the page like the testing and management sites and follow the same procedure.

The following are the rest of the configuration links; they follow the same pattern as explained above.



f. **Pharmacy List:** Enter the names of all participating pharmacies in the country.

g. **Drugs/Treatment Regimen:** For the drug/treatment regimen, enter an exhaustive list of treatment options for

HIV, T.B., Syphilis, Viral Hepatitis, and other STDs. See the table below to guide the Drugs/Treatment list configuration.

Drug

Regimen

Isoniazid (INH)

First Line - TB

Rifampicin (RIF)

First Line - TB

Pyrazinamide (PZA)

First Line - TB

Ethambutol (EMB)

First Line - TB

Streptomycin (SM)

First Line - TB

Ofloxacin (OFX)

Second Line – TB

Levofloxacin (LEV)

Second Line – TB

Moxifloxacin (MOX)

Second Line – TB

Ciprofloxacin (CIP)

Second Line – TB

2HRZE

Intensive phase

4HR

Continuation phase

2HRZES + 1HRZE

Intensive phase

5HRE

Continuation phase

4HRE

Continuation phase

pyridoxine

Other medication

Gatifloxacin

Second line – TB

Kanamycin

Second line – TB

Prothionamide

Second line – TB

Clofazimine

Second line – TB

Amikacin

Second line – TB

Cycloserine

Second line – TB

Ethionamide

Second line – TB

Capreomycin

Second line – TB

Ethionamide / Prothionamide

Second line – TB

Cycloserine / Terizidone

Second line – TB

Linezolid

Second line – TB

Clofazimine

Second line – TB

Bedaquiline

Other Medication

Delamanid

Other Medication

p-aminosalicylic acid

Other Medication

Imipenem-cilastatin4

Other Medication

Meropenem

Other Medication

Amoxicillin-clavulanate

Other Medication

Let your data tell the story.

Thioacetazone

Other Medication

TDF+FTC+EFV (300+200+600)

First Line – HIV

TDF+3TC+EFV (300+300+600)

First Line - HIV

AZT + 3TC + EFV (300+300+600)

First Line – HIV

AZT + FTC + EFV (300+200+600)

First Line – HIV

AZT+3TC+DTG (300+300+50)

First Line – HIV

AZT+FTC+DTG (300+200+50)

First Line – HIV

TDF+3TC+EFV (300+300+400)

First Line – HIV

TDF+FTC+EFV(300+200+400)

First Line – HIV

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TDF+FTC+NVP(300+200+200)

First Line – HIV

TDF+3TC+NVP(300+300+200)

First Line – HIV

ABC+3TC+NVP(600+300+200)

First Line – HIV

ABC+FTC+NVP(600+200+200)

First Line – HIV

AZT/3TC/ATV/r

Second Line – HIV

AZT/3TC/LPV/r

Second Line – HIV

AZT/3TC/DRVr

Second Line – HIV

AZT/3TC/RAL/LPVr

Second Line – HIV

ABC/3TC/LPVr

Second Line - HIV

ABC/3TC/ATV/r

Second Line – HIV

TDF/FTC/LPV/r

Second Line – HIV

TDF/FTC/ATV/r

Second Line – HIV

TDF/3TC/LPV/r

Second Line – HIV

TDF/3TC/ATV/r

Second Line – HIV

DRV/R + DTG + AZT+3TC

Third Line – HIV

DRV/R + DTG + ABC/3TC

Third Line – HIV

DRV/R + DTG + TDF + FTC

Third Line – HIV

Abacavir (ABC)

Other medication

Emtricitabine (FTC)

Other Medication

Lamivudine (3TC)

Other Medication

Zidovudine (AZT)

Other Medication

Tenofovir (TDF)

Other Medication

Efavirenz (EFV)

Other Medication

Etravirine (ETV)

Other Medication

Nevirapine (NVP)

Other Medication

Atazanavir plus ritonavir (ATV/r)

Other Medication

Darunavir plus ritonavir (DRV/r)

Other Medication

Fosamprenavir plus ritonavir (FPV/r)

Other Medication

Lopinavir/ritonavir (LPV/r)

Other Medication

Rifabutin

Other medication

Clarithromycin

Other medication

Ketoconazole

Other medication

Fluconazole

Other medication

Itraconazole

Other medication

Ethinyl estradiol

Other medication

Carbamazepin phenytoin

Other medication

Simvastatin lovastatin

Other medication

Atorvastatin

Other medication

Pravastatin

Other medication

Co-trimoxazole

Other medication

Pentamidine

Other medication

Primaquine

Other medication

Clindamycin

Other medication

Dapsone

Other medication

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Atovaquone

Other medication

Pyrimethamine

Other medication

Sulfadiazine

Other medication

Leucovorin

Other medication

TMP-SMX

Other medication

Nitazoxanide

Other medication

Paromomycin

Other medication

Fumagillin

Other medication

Itraconazole

Other medication

TNP-470

Other medication

Ceftriaxone

Other medication

Cefotaxime

Other medication

Doxycycline

Other medication

Benzathine Penicillin

Other medication

Aqueous crystalline penicillin

Other medication

Posaconazole

Other medication

Voriconazole

Other medication

Peginterferon alfa-2a

Other medication

Ganciclovir	Other medication
-------------	------------------

Cidofovir	Other medication
-----------	------------------

Foscarnet	Other medication
-----------	------------------

Valganciclovir	Other medication
----------------	------------------

Topical Trifluridine	Other medication
----------------------	------------------

Topical imiquimod	Other medication
-------------------	------------------

Valganciclovir	Other medication
----------------	------------------

Acyclovir	Other medication
-----------	------------------

Valacyclovir	Other medication
--------------	------------------

Famciclovir

Other medication

Podophyllotoxin

Other medication

Imiquimod 5% cream

Other medication

Sinecatechins 15% Ointment

Other medication

Peginterferon alfa 2b

Other medication

Prednisone

Other medication

Dexamethasone

Other medication

Metronidazole

Other medication

Trichloroacetic acid

Other medication

Bichloroacetic acid cauterization 80-90% aqueous solution Other medication

Add other drugs used in the country that are not on the list and remove drugs that are not in use.

3TC = Lamivudine, ABC = Abacavir, AZT = Zidovudine, DTG = dolutegravir, EFV = Efavirenz, FTC = emtricitabine, NVP = nevirapine, TDF = tenofovir

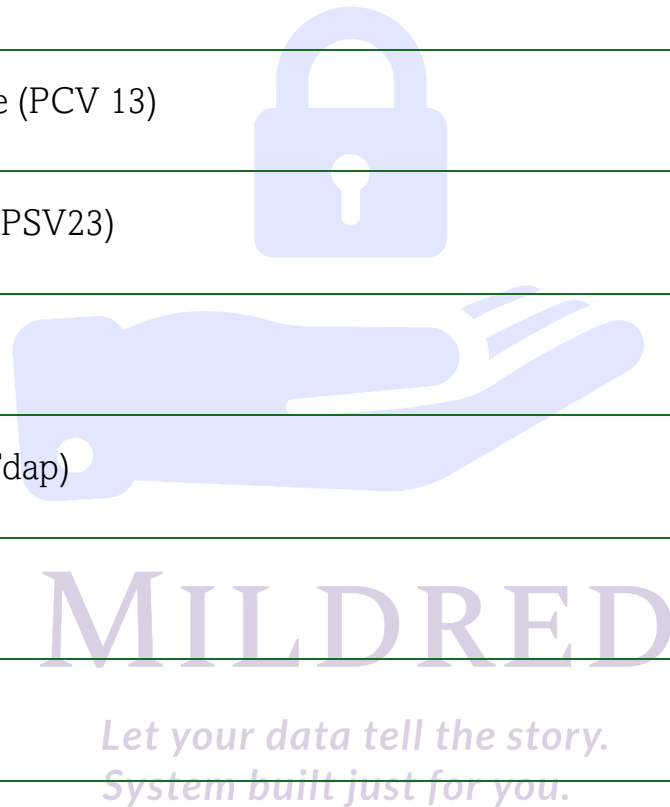
If drugs used to treat HIV are used to treat other conditions, e.g., Lamivudine for HBV, let the doctors select Lamivudine and Other medication as the treatment regimen.

h. **Vaccine List:** Use the table below to guide the creation of the vaccination list

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S/N Vaccine
1. Bacille Calmette Guerin (BCG)
2. Pneumococcal 13-valent conjugate (PCV 13)
3. Pneumococcal (polysaccharide) (PPSV23)
4. Hepatitis B
5. Tetanus, diphtheria, pertussis (Td/Tdap)
6. HPV
7. Zoster
8. Measles, mumps, and rubella (MMR)



9.	Varicella
10.	Hepatitis A
11.	Meningococcal 4 valent conjugate (MenACWY)
12.	Pfizer-BioNTech (Comirnaty)
13.	Moderna (Spikevax)
14.	Johnson & Johnson (Janssen)
15.	Novavax (Nuvaxovid)
16.	Novavax (Covovax)
17.	Oxford-AstraZeneca



18.	Diphtheria, Tetanus & Acellular Pertussis (DTap)
19.	Diphtheria, Pertussis, Tetanus Toxoid (DPT)
20.	Inactivated Poliovirus (IPV)
21.	Influenza (IIV)
22.	Influenza (LAIV4)
23.	Meningococcal B
24.	Oral Polio Vaccine (OPV)
25.	Inactivated Polio Vaccine (IPV)
26.	Pentavalent vaccine (Diphtheria, Pertussis, Tetanus, Hepatitis B, HiB)



27.	Rotavirus (RV1)
28.	Rotavirus (RV5)
29.	Tetanus, Toxoid, Diphtheria (T.D.)

Add other vaccines given in the country to the list or exclude types of the vaccine on the table that are not in use within the country.

i. **Screening List:** Create/update the types and categories of screenings/lab tests. The system classifies all screenings into four groups. HIV, T.B., Syphilis, and Routine. List any not HIV, Syphilis, or T.B. screening as routine screening. When listing the screenings, ensure that the following are listed thus (ensure the same capitalization and spacing)

Screening Name

Category

TPPA

Syphilis

TPHA

Syphilis

RPR

Syphilis

Syphilis Rapid Test

Syphilis

VDRL

Syphilis

FTA-ABS

Syphilis

Xpert MTB/RIF

TB

Mantoux

TB

TST

TB

Add an exhaustive list of screenings as collected from the labs. Ensure that the list on the tab is entered and named precisely as on the table.

j. **Test modalities:** There is a standard list of testing modalities for HIV testing. Consider adding the following to the list

S/N	Modality	Indicator type
1.	VCT – NGO	Testing indicator
2.	VCT – Mobile Facility	Testing indicator
3.	VCT – Public	Testing indicator
4.	Community	Testing indicator
5.	PITC	Testing indicator
6.	T.B.	Testing indicator
7.	PMTCT(ANC 1)	Testing indicator
8.	HTS_SELF	Testing indicator

9.	VCT – Private	Testing indicator
10.	HTS_RECENT (Confirmatory Test)	Testing indicator

k. **Create vaccination schedule:** Each country has a different vaccination schedule. Enter the Vaccination schedule for the country. (i.e., the vaccine name, the series, and the age or space between doses).

l. National census population by sex and age group

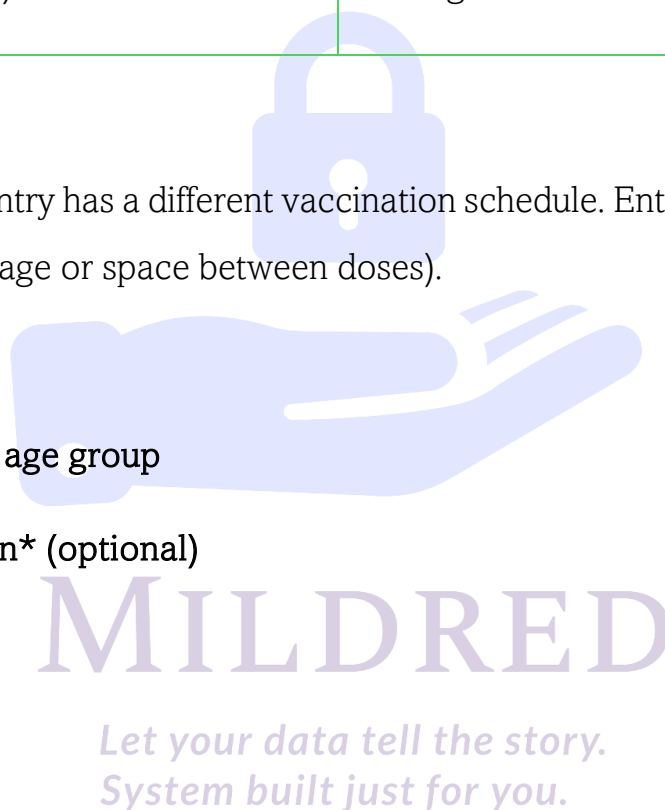
m. National census population by division* (optional)

n. Economic variables* (optional)

o. National births by sex

p. National births by census division* (optional)

q. Mortality by age group and sex



r. **mortality by census division and sex*** (optional)

s. **child mortality*** (optional): This collects mortality of children less than one day old, one day old, 1-6 days old, 7-28 days old, one year old, two years old, three years old, and four years old.

The configuration also holds links to export tables of configured information; the links are:

Export sites

Export ethnicities

Export health districts

Export parishes

Export pharmacy

Export regimen

Export vaccine list

Export screening list

Export modalities



Export vaccination schedule

Export permissions and their associated roles



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CONFIGURATION NOTES

- The System configuration is the first step to implementation. The configuration collects all the required variables that all other system functionalities depend on to populate dynamic drop-down menu choices.
- While entering variables names, avoid the use of apostrophe (for instance if you have a site named Gray’s clinic, use grays clinic instead). The use of special character will cause undesirable effects on the screening and management pages.
- While creating the screenings list, ensure that the following screenings are named with same capitalizations and spacing thus:
 - VDRL
 - RPR
 - Syphilis Rapid Test
 - Mantoux
 - TST
 - TPPA
 - TPHA
 - FTA-ABS
 - Xpert MTB/RIF
- While entering the drug/treatment regimen, ensure that you enter an exhaustive list of all drugs and select the appropriate regimen. For drugs that are not used to treat HIV or TB, select other medication as the regimen option. Below is a list of medications that should be entered along with any medication used in the country not on the list.

5.1.2.4 USERS & ACCOUNTS

For all users granted the **user_account** permission, expanding the pages menu reveals a User's & Accounts sub-menu (figure 17).

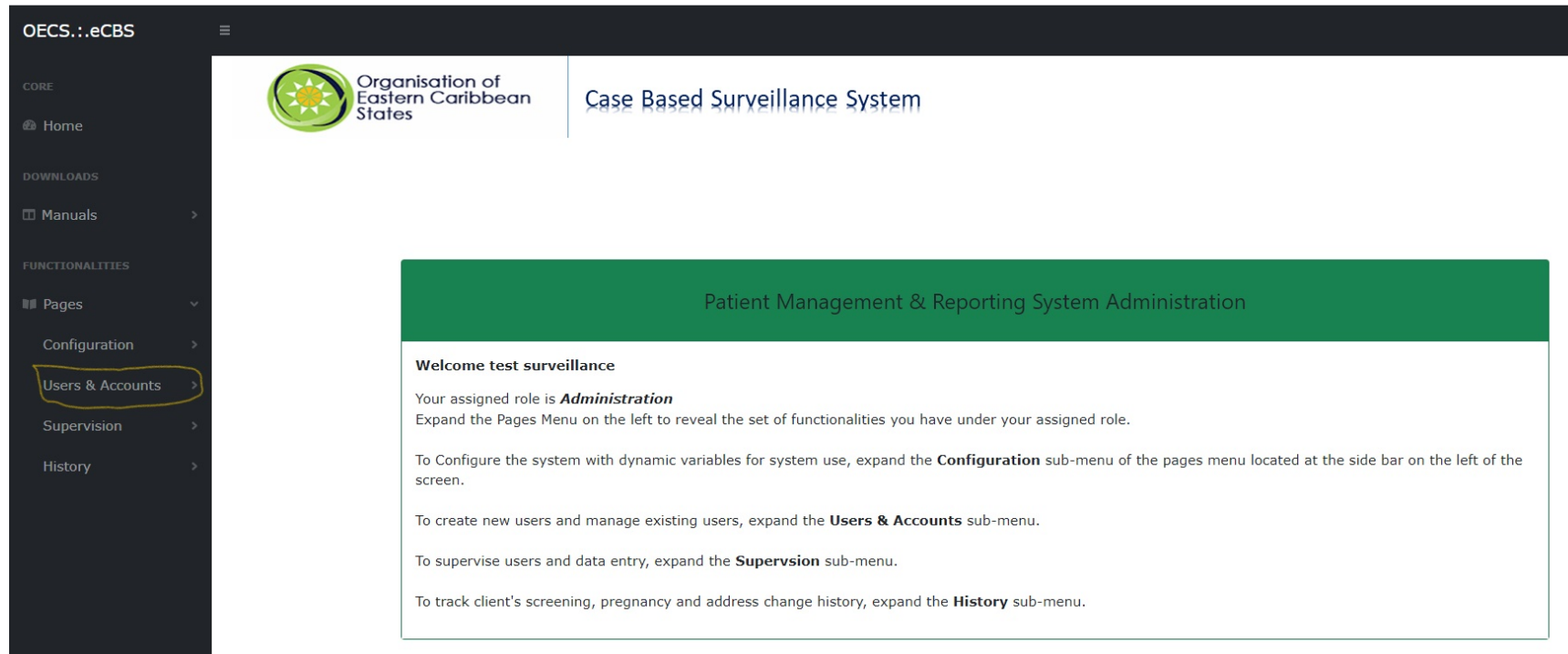


Figure 17: Image of the users and accounts sub-menu highlighted in yellow

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Expansion of the Users & Accounts sub-menu reveals links to the following functionalities:

5.1.2.4.1 CREATE A NEW USER

Enter the user's first name, last name, and email address, select a role, and assign permissions to the role. The left side of the form (within the main content area) gives a detailed description of the functionalities within each permission (See Figure 18). The system generates an activation email after completing the form and clicking the Create button. It sends the email to the email account specified on the form. A success message is displayed if the account creation is successful (See Figure 19).



OECS::eCBS

CORE

Home


DOWNLOADS

Manuals

FUNCTIONALITIES

Pages

Logged in as:
test surveillance



Organisation of
Eastern Caribbean
States

Case Based Surveillance System

Users' Creation Guide

Use the form on the right to create a new user. Enter the user's First name, Last Name, Email address and select the role of the user.

Definition of Roles and associated permissions. Click on the tab with the role name and read about the role and its associated permissions

AdministrationMonitoring & ReportingScreenings and Management

Administration : This role should be assigned to an administrator or user whose job description it is to securely configure the system and create users :
a. **user_account** : This permission allows the granted user the ability to create new users and manage existing users, register a pharmacist, retrieve missing Unique ID, and Update client's personal Information
b. **system_configuration** : This permission allows the granted user the ability to do the first time national system configuration - Addition of testing sites, ethnicities, health district and parishes, pharmacies, drugs and treatment regimen, immunization list, and reporting variables

Once an account is created, the user will receive an email (at the address specified for the account) to activate account and set password.

User account creation Form

User Registration Form

First NameMildred

Last NameFakoya

Email Addressmif869@g.harvard.edu

Confirm Emailmif869@g.harvard.edu

Select Role:Monitoring and Reporting

Monitoring and Reporting Permissions

to select multiple permissions click ctrl + the option(s)

Please assign role permissions to the user

screenings_report

hiv_cases_report

anc_report

pharmacy_report

tb_report

Create

Figure 18: Annotated user account creation form

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The screenshot shows the OECS-eCBS interface. On the left is a dark sidebar with navigation links: CORE, Home, DOWNLOADS, Manuals, FUNCTIONALITIES, and Pages. The main content area has a header with the Organisation of Eastern Caribbean States logo and the title 'Case Based Surveillance System'. A green success message banner at the top reads: 'Success! We've sent an email to mif869@g.harvard.edu. The user will be asked to set their password and activate their account. Refreshing page....'. Below this is a 'Users' Creation Guide' section with instructions and a 'Definition of Roles and associated permissions' table. The table has three tabs: Administration, Monitoring & Reporting, and Screenings and Management. The 'Administration' tab is active, showing details for the 'user_account' role. To the right is the 'User Registration Form' with fields for First Name (mildred), Last Name (fakoya), Email Address (mif869@g.harvard.edu), Confirm Email (mif869@g.harvard.edu), and Select Role ([choose here]). A blue 'Create' button is at the bottom.

Users' Creation Guide

Use the form on the right to create a new user. Enter the user's First name, Last Name, Email address and select the role of the user.

Definition of Roles and associated permissions. Click on the tab with the role name and read about the role and its associated permissions

Administration	Monitoring & Reporting	Screenings and Management
<p>Administration : This role should be assigned to an administrator or user whose job description it is to securely configure the system and create users :</p> <p>a. user_account : This permission allows the granted user the ability to create new users and manage existing users, register a pharmacist, retrieve missing Unique ID, and Update client's personal information</p> <p>b. system_configuration : This permission allows the granted user the ability to do the first time national system configuration - Addition of testing sites, ethnicities, health district and parishes, pharmacies, drugs and treatment regimen, immunization list, and reporting variables</p>		

Once an account is created, the user will receive an email (at the address specified for the account) to activate account and set password.

User Registration Form

First Name: mildred

Last Name: fakoya

Email Address: mif869@g.harvard.edu

Confirm Email: mif869@g.harvard.edu

Select Role: [choose here]

Create

Figure 19: Image showing the user account creation form with a success message

5.1.2.4.2 MANAGE EXISTING USERS

To manage a user's accounts, click the "Manage Existing User" link and enter the user's email address. Suppose the email address is an email of a registered user. In that case, a container with three tabbed pages displays below the form.

Tab 1: Manage Users: This tab holds a form that allows the deletion of a user's account or updating a user's first name, last name, role, and account deactivation. (for account deactivation, change the activation status from activated to not activated).

Tab 2: View Users: This tab holds a form that displays the user's first name, last name, email, role, activation status, and last date and time of successful login.

Tab 3: Set and Edit permissions: This tab holds a form to delete previously assigned permission and allows the update of permissions or assignment of new permission(s). To delete permissions, click on the delete permissions button. Select the permissions and click on the reset permissions button to update permissions.

5.1.2.4.3 REGISTER A PHARMACIST

To assign a user to a pharmacy, select the "Register a pharmacist" link, enter the user's email address, and click the get form button. Select a pharmacy on the form displayed and click the Register button. The table to the right of the page holds all the users with the assigned pharmacy. Use the same process to reassign or detach a user from a pharmacy.

Note: the user must have the pharmacy permission granted before pharmacy assignment.

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5.1.2.4.4 ATTACH USERS TO TESTING AND MANAGEMENT SITES

Select the "Attach users to testing and management sites" link. Select the user's email address from the drop-down menu and a site from the menu and click the assign site button. The table to the right of the page holds the users and their assigned sites in an updatable form. To delete an assignment, click on the red trash sign on the assignment's row. Select a new site from the drop-down menu and click on the green edit sign to update an assignment.

The drop-down menu populates with emails of unassigned users. An empty drop-down menu indicates the complete assignment of all registered users.

5.1.2.4.5 VIEW ALL USERS

The view all users link displays an exportable table of all registered users' credentials, roles assigned, permissions granted, and account activation status.

5.1.2.5.6 FIND MISSING UNIQUE ID

This link displays a form to search for a client's unique I.D. by the first name, last name, or testing code. The search is successful if the account creator enters the client's first name, last name, and testing code during creation.

When the search is successful, a table displays below the form. The table holds information for all matches found. If more than one match is found, use the other details on the table to verify the correct unique ID of the intended client.

5.1.2.4.7 UPDATE CLIENT'S PERSONAL INFORMATION

This link allows the client to update or enter their security information. The security information for a client is the Client's name, biological sex, date of birth, testing code, ethnicity, country of birth, and unique ID.



- *WHEN ASSIGNING A PHARMACY TO A USER, THE USER MUST HAVE THE PHARMACY PERMISSION GRANTED FIRST. ALL USERS GRANTED THE PHARMACY PERMISSION, CAN SELF ASSIGN.*
- *WHEN ASSIGNING TESTING SITES TO USERS, THE DROP-DOWN MENU POPULATES WITH EMAILS OF UNASSIGNED USERS.*
- *WHEN TRYING TO RETRIEVE A MISSING/FORGOTTEN UNIQUE ID, THE SEARCH IS ONLY SUCCESSFUL IF EITHER THE FIRST NAME, LAST NAME OR TESTING CODE WAS ENTERED DURING THE CLIENT'S ACCOUNT CREATION.*
- *CLIENT'S NAMES, BIOLOGICAL SEX, DATE OF BIRTH, COUNTRY OF BIRTH, ETHNICITY, AND UNIQUE ID ARE CONSIDERED THE CLIENT'S SECURITY INFORMATION*

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5.1.2.5 SUPERVISION

A user assigned the **supervise_screenings** permission can access the Supervision sub-menu of the page menu. The supervisor has access to the following functionalities:

5.1.2.5.1 GET SCREENING INFORMATION BY SITE

Clicking this link presents a form that allows the user to select a site and get screening information for the selected site. Once a site is selected and the GET button is clicked, a table holding a list of information accessed/entered by date, user, and client is displayed. Beside each row of information is a GET DATA button. Click on this button to get the screening information recorded by the user for the client on the indicated date.

Suppose no information populates in the tabs presented. In that case, the user accessed the files for other reasons but did not make changes or enter screening information. New information found populates in their respective tabs.

5.1.2.5.2 PENDING CARE REGISTRATION

This links to a page that holds three exportable tables listing clients referred for care registration of HIV, T.B., other STIs, and prevention but not in care. The columns of each table contain the unique id, category, name of the referrer, and the date of referral of each client.

5.1.2.5.3 VIEW CLIENTS IN CARE

This links to a page that displays three exportable tables containing a list of HIV, T.B., other STI, and prevention clients in care. The columns of each table contain the unique id, category, name of the referrer, and the date of referral of each client.

5.1.2.5.4 GET ALL HIV SCREENINGS

This links to a page that displays an exportable table of all recorded HIV screenings. Please note that it does not hold unique screenings but all the recorded changes for a screening. The table columns contain the Unique ID, the date of the screening/sample collection, the screening site, the reporter's name, the type of test, the test modality used, and the result.

5.1.2.5.5 GET ALL T.B. SCREENINGS

This links to a page that displays an exportable table of all recorded tuberculosis screenings. Please note that it does not hold unique screenings, but all the recorded changes for a screening. The table columns hold the Unique ID, the date of the screening/sample collection, the screening site, the reporter's name, the type of test, the induration (for TST), and the result.

5.1.2.5.6 GET ALL SYPHILIS SCREENINGS

This links to a page that displays an exportable table of all recorded Syphilis screenings. Note that it does not hold unique screenings, but all the recorded changes for a screening. The table columns hold the Unique ID, the date of the screening/sample collection, the screening site, the reporter's name, the type of test, the titre, and the result.

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5.1.2.5.7 GET OTHER RECORDED SCREENING

This links to a page that displays an exportable table of all other routine screenings. Note that it does not hold unique screenings but all the recorded changes. The table columns hold the Unique ID, the date of the screening/sample collection, the screening site, the reporter's name, the type of test, the result, and other information.

5.1.2.5.8 ANC HIV SCREENINGS

This links to a page that holds an exportable table of recorded HIV screenings for an antenatal client. Please note that it does not hold unique screenings but all recorded screenings and changes. The table columns hold the Unique ID, Pregnancy ID, Gestation age at screening, screening site, type of test, result, and screening/sample collection date.

5.1.2.5.9 ANC TB SCREENINGS

This links to a page displaying an exportable table of all recorded tuberculosis screenings for an antenatal client. It does not hold unique screenings but all recorded changes to the screening results. The table columns contain the unique I.D., pregnancy I.D., gestation age, screening site, type of test, induration (for TST), result, and screening/sample collection date.

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5.1.2.5.10 ANC SYPHILIS SCREENINGS

This links to a page displaying an exportable table of all recorded syphilis screenings for an antenatal client. Note that it does not hold unique screenings but all the changes resulting from screenings. The table columns contain the unique I.D., pregnancy I.D., gestation age, screening site, type of test, titre, result, and screening/sample collection date.

5.1.2.5.11 ANC HEPATITIS SCREENINGS

This links to a page displaying an exportable table of all recorded hepatitis screenings for an antenatal client. Please note that the table does not hold unique screenings but all recorded changes to the screening results. The table columns contain the unique ID, pregnancy ID, gestation age, screening site, type of test, result, and screening/sample collection date.

5.1.2.5.12 OTHER ANC SCREENINGS

This links to a page that displays an exportable table of all other routine screenings recorded for an antenatal client. Please note that it does not hold unique screenings but all the recorded changes. The table columns contain the unique I.D., pregnancy I.D., Gestational age at screening, screening site, type of test, result, other result information, and date of screening/sample collection.

5.1.2.5.13 EXPOSED INFANT HIV SCREENINGS

This links to a page that holds an exportable table of HIV screenings for Exposed infants. The columns of the table contain information on: the unique id, the date and type of test done, the age at the screening, and the month/year of the record.

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5.1.2.5.14 EXPOSED INFANT REGISTRATION INFORMATION

This links to a page containing an exportable table of exposed infant information. The columns hold the child's unique I.D., the mother's unique Id, the date of birth, the sex, the exposure (HIV, Syphilis, or Hepatitis), and the month and year of the registration.

5.1.2.5.15 PREVENTION DISTRIBUTION

This links to a page that holds three exportable tables;

Table 1. The self-test results recorded (the type of test kit, the serial no., the category of the test, the HIV result, the Syphilis result, comment, and date of the test)

Table 2. The self-test kits distributed

Table 3. The condoms distributed (no. of male condoms, no. of female condoms, the date given, and the site of distribution)



5.1.2.6 HISTORY

All users assigned the history_tracking permission can access the page's History sub-menu. This menu holds the below links

5.1.2.6.1 TRACK CLIENT'S SCREENING HISTORY

This links to a form that collects the client's unique id. A successful search returns rows of screening records in groups of the types of screenings in exportable tables.

5.1.2.6.2 TRACK CLIENT'S PREGNANCY HISTORY

This links to a form that collects the unique I.D. of the client. A successful search returns rows of pregnancy records (pregnancy I.D., registration date, and the registration site).

5.1.2.6.3 TRACK CLIENT'S ADDRESS CHANGE HISTORY

This links to a form that collects the client's unique I.D. Enter the unique I.D. of the client. The client's address and address change histories populate in a search result box if found.

5.2 THE SCREENINGS AND MANAGEMENT ROLE

Users assigned the screenings and management role are authenticated using their log-in credentials and redirected to the screenings and management home page. The functionalities displayed under the **pages** menu depend on the permissions assigned to the user.

The screening and management role includes functionalities for VCT providers, Laboratories (private and public), rapid testers, antenatal clinics, clinical care nurses and physicians, social workers / psychosocial and adherence counselors, pharmacists, and every other person involved in HIV/STI, T.B., and Hepatitis screenings and management.

Look at the workflows in Figures 20–24.



WORKFLOW SCREENINGS

Follow the colors of the arrows. Red lines mean that all channels go through the same process and continue with the arrow's color for the channel.

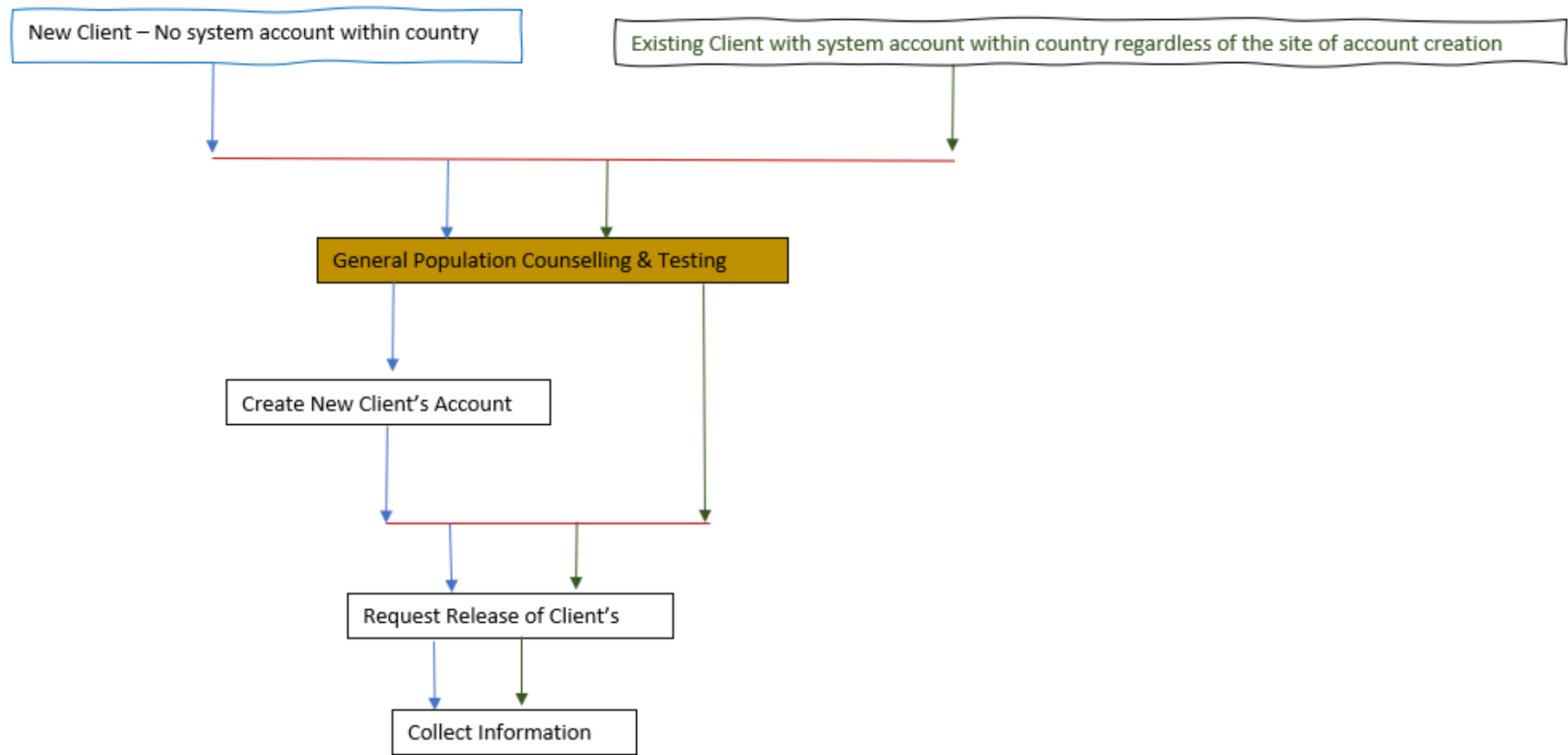
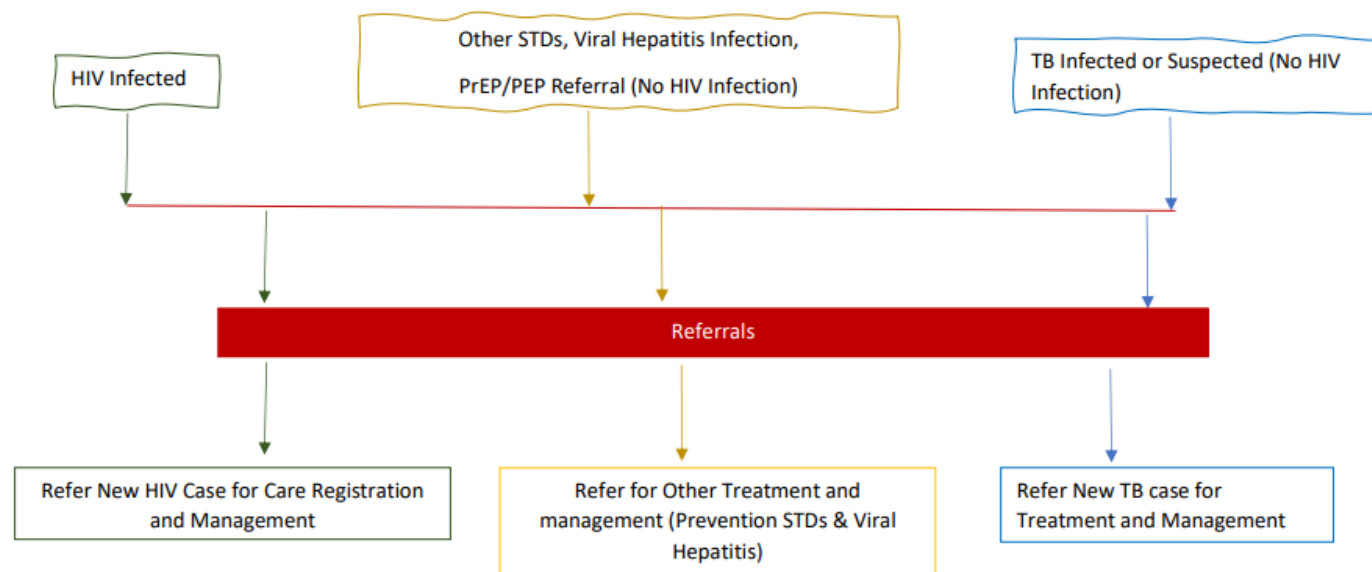


Figure 20: Screenings workflow

WORKFLOW REFERRALS – ADULT, ADOLESCENT & PEDIATRIC (NOT PERINATAL INFECTION)

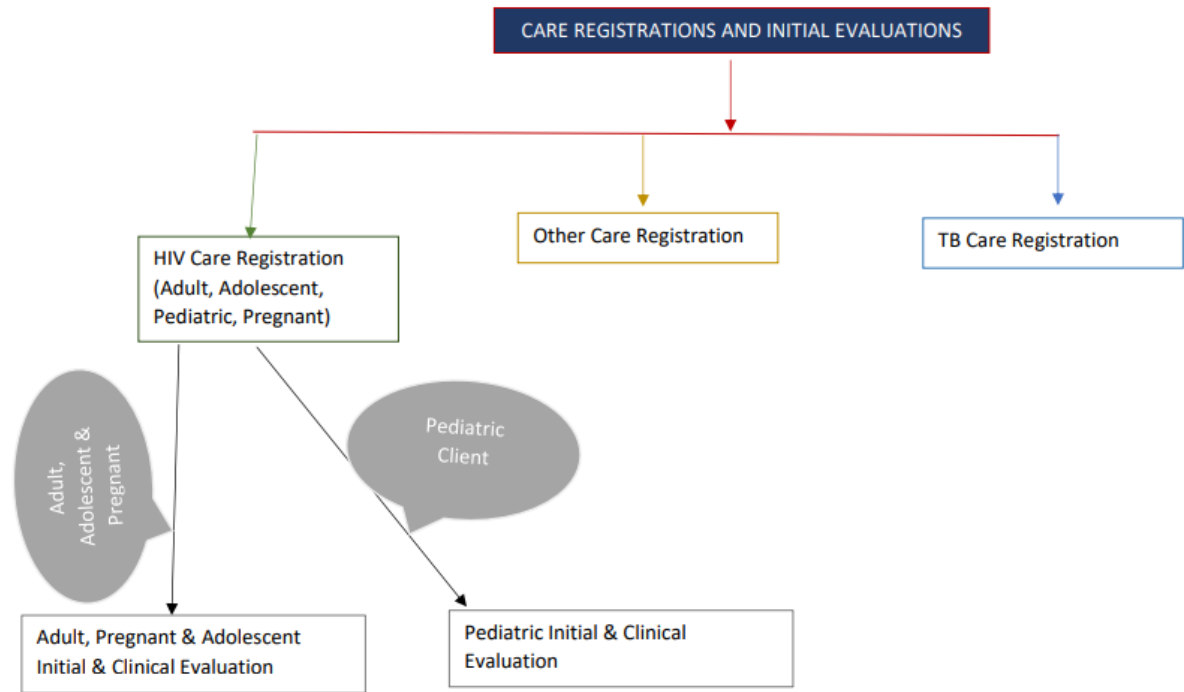


Note:

- For Client Co-infected with HIV and Others, you can choose to do all individual referrals, or you can “Refer New HIV Case for Care Registration and Management” only. Either will work fine.

Figure 21: Referrals workflow

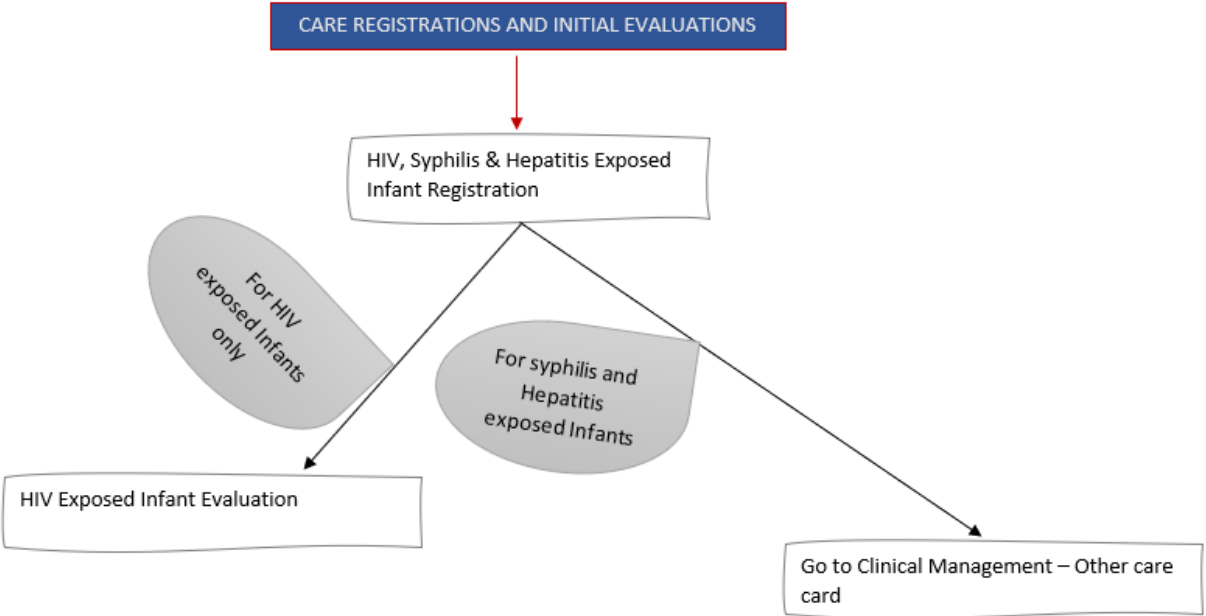
WORKFLOW CARE REGISTRATION FOR REFERRED CLIENTS & CLINICAL MANAGEMENT



Go to step 1 for HIV infected clients

Figure 22: workflow - care registration for referred pediatric, adolescent, adult, and pregnant clients.

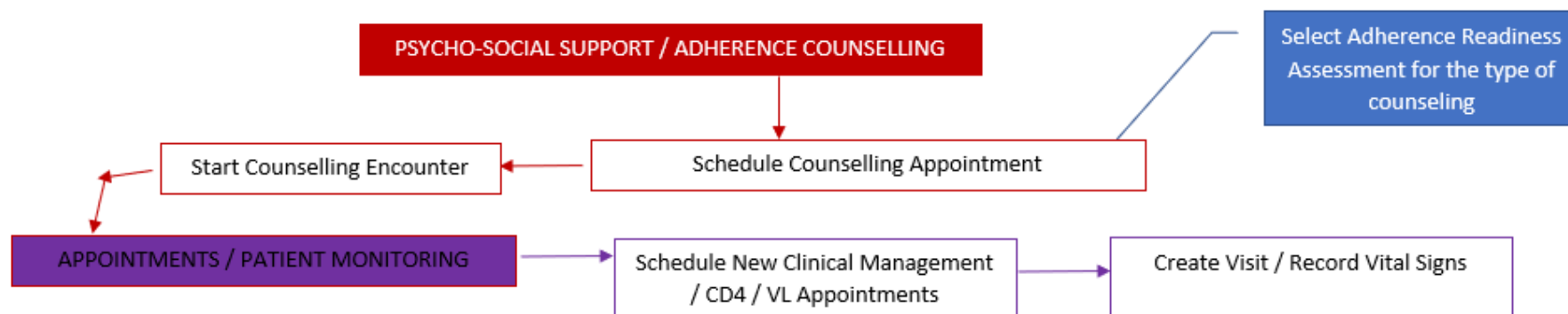
WORKFLOW CARE REGISTRATION FOR EXPOSED INFANTS AND CLINICAL MANAGEMENT



Go to step 1 for HIV infected clients
Skip Step 1 and Start Step 2 for clients with other types of infection

Figure 23: workflow care registration for exposed infants

Step 1: Continue to Clinical Management for HIV Infected only (all categories of clients, including exposed infants); for TB and Other Infection, skip this step



Step 2: Continue Clinical Management for all clients

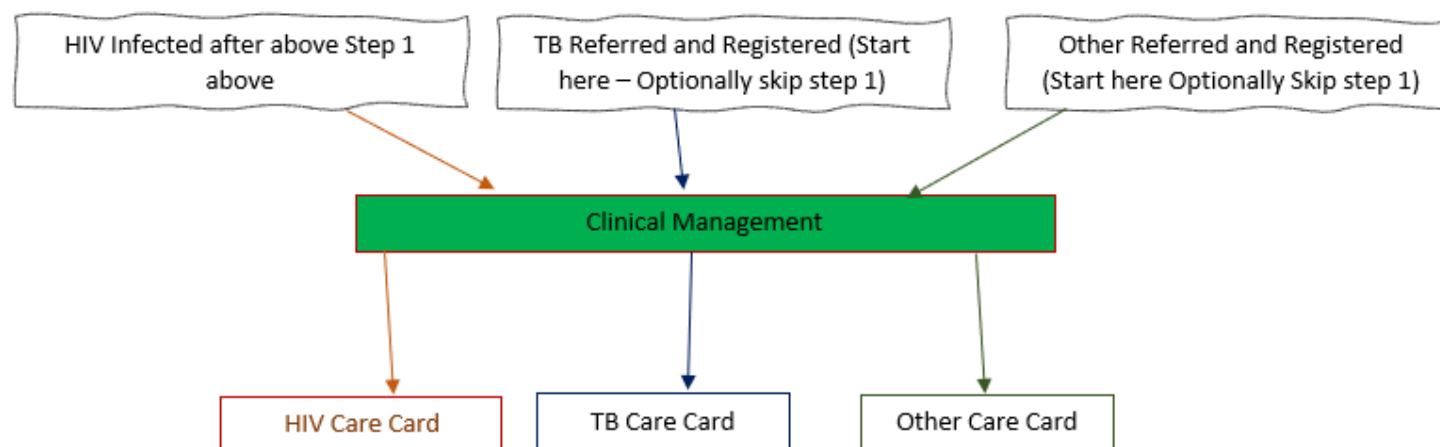


Figure 24: Steps to clinical management

5.2.1 THE SCREENINGS AND MANAGEMENT ROLE PERMISSIONS

The permissions of the Screenings and Management role are:

5.2.1.1 GENERAL_POPULATION_SCREENINGS: A user granted this permission can – Create a client's account, collect the client's personal, behavioral, and screening information, review a client's screening history, review/update a client's personal information, retrieve a list of all registered ANC clients at the assigned site, get a list of all the clients' files accessed by the logged-in user and registration status of the referred clients, record self-test kit distribution, retrieve site-level reports on screenings recorded, and review client's treatment plan for clients in care or referred back to the health center for follow-up.

referrals: A user granted this permission can refer clients for care registration, management, and prevention and control services.

Updates: A user assigned this permission can update the client's screening result, switch the client's category, and register deaths.

care_registration: A user assigned this permission can view all incoming referrals, register referred clients into care, register exposed infants into care, retrieve a list of registered clients, and record initial evaluation data.

psycho-social_adherence_counselling: Users assigned this permission can schedule counseling appointments, record counseling session information, and retrieve past recorded session information.

routine: A user assigned this permission can view pending client appointments, schedule new appointments, change appointment dates, create a visit/record vital sign, get adherence readiness information, monitor clients' appointments and routine tests, and reset routine test dates.

clinical_management: A user assigned this permission can record all clinical management notes and retrieve past clinical management notes.

central_medical_unit: A user assigned this permission can create a medication list, recall medication, and record the medication distribution to pharmacies.

pharmacy: A user assigned this permission can create stock, record medication dispense, view transaction history, and retrieve the client's treatment plan.

prevention_control: can retrieve a list of contacts to be traced, record tracking of contacts, start a risk reduction plan for clients, retrieve past recorded risk and risk reduction session information, register PMTCT clients, and review PMTCT registrations.



5.2.2 THE SCREENINGS AND MANAGEMENT ROLE FUNCTIONALITIES

5.2.2.1 GENERAL POPULATION COUNSELLING AND TESTING

5.2.2.1.1 CREATING A NEW CLIENT'S ACCOUNT

A user assigned the `general_population_screenings` permission can access the **page menu's GENERAL POPULATION COUNSELLING & TESTING sub-menu**. Expand this link and click on the "*create new client's account*" to get a form to collect the following information about the client:

First name: Enter the client's first name (if allowed) or the first letter of the first name.

Middle name: Enter the client's middle name (if allowed) or the first letter of the middle name.

Last name: Enter the client's last name (if allowed) or the first letter of the last name.

Date of Birth: Enter the client's day, month, and birth year.

Sex: Enter the client's biological sex or the sex assigned at birth.

Mother's maiden name: enter the client's mother's maiden name or the first letter of the maiden name

Create Client's Account

Note: This is a one time account creation form for clients. For subsequent screenings and information update of the same client, use the [New and subsequent screenings link](#)

When this account is created, all female and intersex clients will have an antenatal file automatically created. The ANC clinic can use the unique ID to retrieve the file and register pregnancies when the need arises.

Reporter's Information

Date of first account creation	Day	Month	Year
Name of Reporter	First Name: <input type="text" value="mildred"/>		
	Last Name: <input type="text" value="ojomah"/>		
Contact of Reporter	<input type="text"/>		
Facility Type	<input type="text" value="[Choose here]"/>		

Client's Information

First Name	<input type="text"/>		
Middle Name	<input type="text"/>		
Last Name	<input type="text"/>		
Date of Birth	Day	Month	Year
	Year of Birth is Required to Generate Testing Code. Leaving this field Blank will use an YY for testing code generation		
Sex	<input type="text" value="[Choose Here]"/>		
Mother's Maiden Name	<input type="text"/>		
Testing Code	<input type="text"/>		
Unique ID	<input type="text"/>		
Unique ID type	<input type="text" value="[Choose here]"/>		

Create Account

Figure 25: Clients account creation form

The testing code is generated automatically based on the entered credentials and should not be the client's unique identifier. The system enforces the clients' uniqueness; it is best to use an I.D. number unique to the client as a unique identifier. After filling in all the required fields, click the Create Account button to create the client's account. Watch out for a success message before retrieving the file generated for the client.

NOTE: When a client's account is created, the system generates data collection forms for the client. All clients whose sex assigned at birth is female or Intersex have pregnancy and antenatal-related forms added to their file.

5.2.2.1.2 REQUEST RELEASE OF CLIENT'S FILE

This link should be the starting point for returning clients or clients with an account on the system. To access the generated file for the client, click on the "request release of client's file" link and enter the information requested on the form to release the client's file. Watch out for a success message indicating a successful release of the client's file.

NOTE: all released files are retrieved by midnight of the release date and are available only to the user that released the file.

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5.2.2.1.3 COLLECT THE CLIENT'S INFORMATION.

Once the file has been successfully released, the next step is to click on the "collect client's information" link. The page contains two containers.

OECS-eCBS

Organisation of Eastern Caribbean States

Case Based Surveillance System

General Screenings

Definition used : A transgender male is a male assigned female at birth. They usually have a male gender identity A transgender female is a female assigned male at birth and usually have a female gender identity

Unique ID: agm92f

Note: The unique ID of the client whose information you are about to record / edit is written above. If this does not match the ID of the intended client, please use the 'Collect Information' link to enter the correct ID.

This holds important system detected information about the client to help in risk reduction, prevention and control

Note that the information presented here is based on the last recorded risk behaviours

Basic Summary:

Age: 30 years old
Sexual Orientation: heterosexual
Sex: female
Gender Identity: female
Sexual partner: 2-4
Sexual partner test status: yes

Important behavioural summary:

The system found pregnancy record for the client. The last recorded pregnancy was 06/02/2022

Start Risk Reduction

Get the last 3 recorded Risk History

Risk Reduction Plan History

Each tab below holds a form. At the bottom of each form in a tab, is a save button. The save button will save information in the tab it is contained in. Ensure that you save before leaving a tab.

Personal Information Risk Behaviours Comorbidities / Others HIV Screenings TB Screenings Syphilis Screenings Other Screenings Contact Listing Extra Notes Upload Screening Results Vaccination History Pregnancy History New Pregnancy Registration

Antenatal / Maternity routine follow-up Self Test History

Logged in as: test surveillance

Figure 26: Image of the collect information page showing the client's important summary, the prevention and risk reduction buttons, and the information collection tabs

The first container holds all the important flags about the client. These flags are generated based on the personal, behavioral, and screening information entered about the client. This container also holds three buttons that link the user to the risk reduction plans and histories.

The second container holds tabs containing the forms for further reporting data collection. The forms within each tab hold a save button, and information entered must be saved before moving to a new tab.

The first tab (labeled personal information) holds a form that collects the following types of information: country of birth and residence, address, telephone number, health district, parish, occupation, marital status, level of education, gender identity, sexual orientation, ethnicity, number of sexual partners, types of sexual activity, travel info.

The second tab (labeled risk behaviors) holds a form that collects the client's behavioral information, some of which are intrusive. All the questions on this form are required as critical indicators for auto-report generation rely on this data.

The third tab (labeled comorbidities/others) holds a form that collects comorbid information about the client and other previous screening / STI diagnosis information.

The fourth tab (labeled HIV screenings) holds the HIV screenings record form. Enter the date of the record, select the type of test, the testing modalities used, and the name of the test kit used. For rapid parallel testing, enter both the test kit and results. For serial, users can enter one save and the next or wait for both results and enter both simultaneously. For other types of testing, leave the test kit field blank and fill in just one result field.

The fifth tab (labeled T.B. Screenings) holds the T.B. screening record form. Enter the date, the type of test, the induration (for TST), the result, and the result date.

The sixth tab (Syphilis Screenings) holds the Syphilis screenings record form. Select the record date, the type of test, the titer, the result, and the result date.

The seventh tab (Other screenings) holds the form to record other screenings. Select the record date, the type of screening, the result text/selection, and the test result date.

The eighth tab (contact listing) holds the form to record information of household contacts, sexual or injection drug partners, an STI / Hepatitis positive or high-risk client. The listed contact is saved with an automatically generated contact code for tracing in the prevention & control clinic.

The ninth tab (extra notes) holds a form to leave additional notes about the client for follow-up.

The tenth tab (upload screenings results) holds a form to upload or type screening reports.

The eleventh tab (Vaccination History) holds a form to record the client's vaccination/vaccination history.

The twelfth tab (Self-test History) holds a form that allows the provider to record self-test results for the client or view self-reported self-test results. This is useful when the client receives self-test kits and needs help registering their results on the system. This tab also displays information about the number of self-test kits and condoms given to the client.

For all the tabs listed above, The first three tabs retain their values for easier updating. The fourth to twelfth tabs are all encounter forms. Once values entered into the encounter forms are saved, the form is cleared, and the values held are displayed on the page's right in a history table.

For clients whose biological sex is female or intersex, there are three additional tabs:

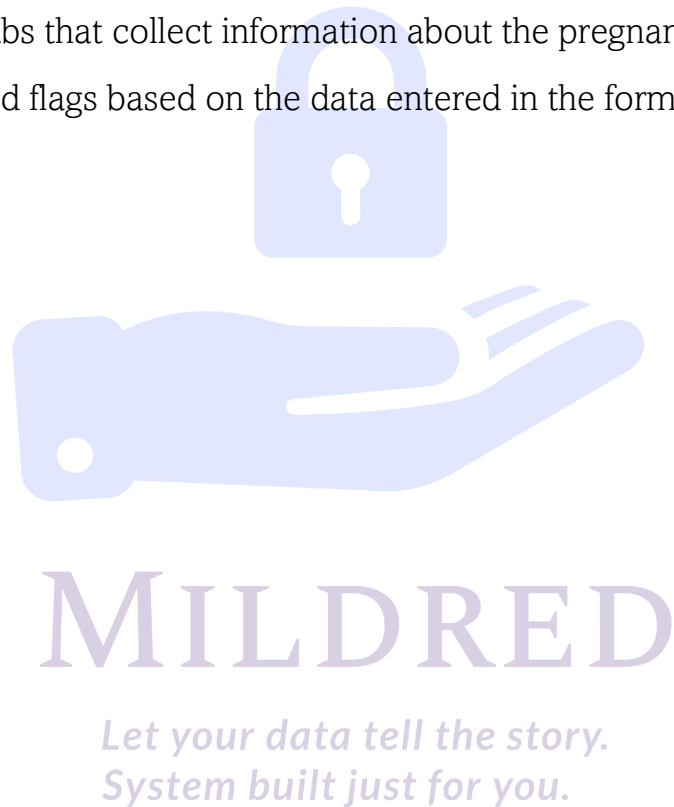
1. *Pregnancy history tab:* this tab holds a table of all client's active and previously registered pregnancies. Click on a pregnancy I.D. on the table to link to that file.

2. *Pregnancy Registration tab:* Holds a pregnancy registration form. The form contains several required fields; the pregnancy id field should have a unique value. As a suggestion, the pregnancy I.D. can be created thus: *by adding the pregnancy number as a suffix to the unique I.D.* For instance, if a client has a unique I.D. **ggh89h** and presents for pregnancy registration with the first pregnancy, the pregnancy I.D. would then be **ggh89hgpreg1**. For the second pregnancy, the pregnancy I.D. will be **ggh89hgpreg2** and **ggh89hgpreg3** for the third, and so on. The system enforces uniqueness on Pregnancy I.D.s.

Once all the required form fields are filled and submitted, the pregnancy visits and investigations forms are generated automatically.

All the generated forms are available in the next tab; the Antenatal/maternity routine follow-up.

3. ***Antenatal/maternity routine follow-up***: This tab holds the file of the last recorded pregnancy. At the top of the page are flags that hold information on the current gestation age of the pregnancy and the gestation age at the last recorded HIV /Syphilis screening. The main content area holds two containers. The container to the left contains the information about antenatal screenings. The container to the right of the page has 17 tabs that collect information about the pregnancy, partners, and birth. Above the flags is a container that holds automatically detected flags based on the data entered in the forms.



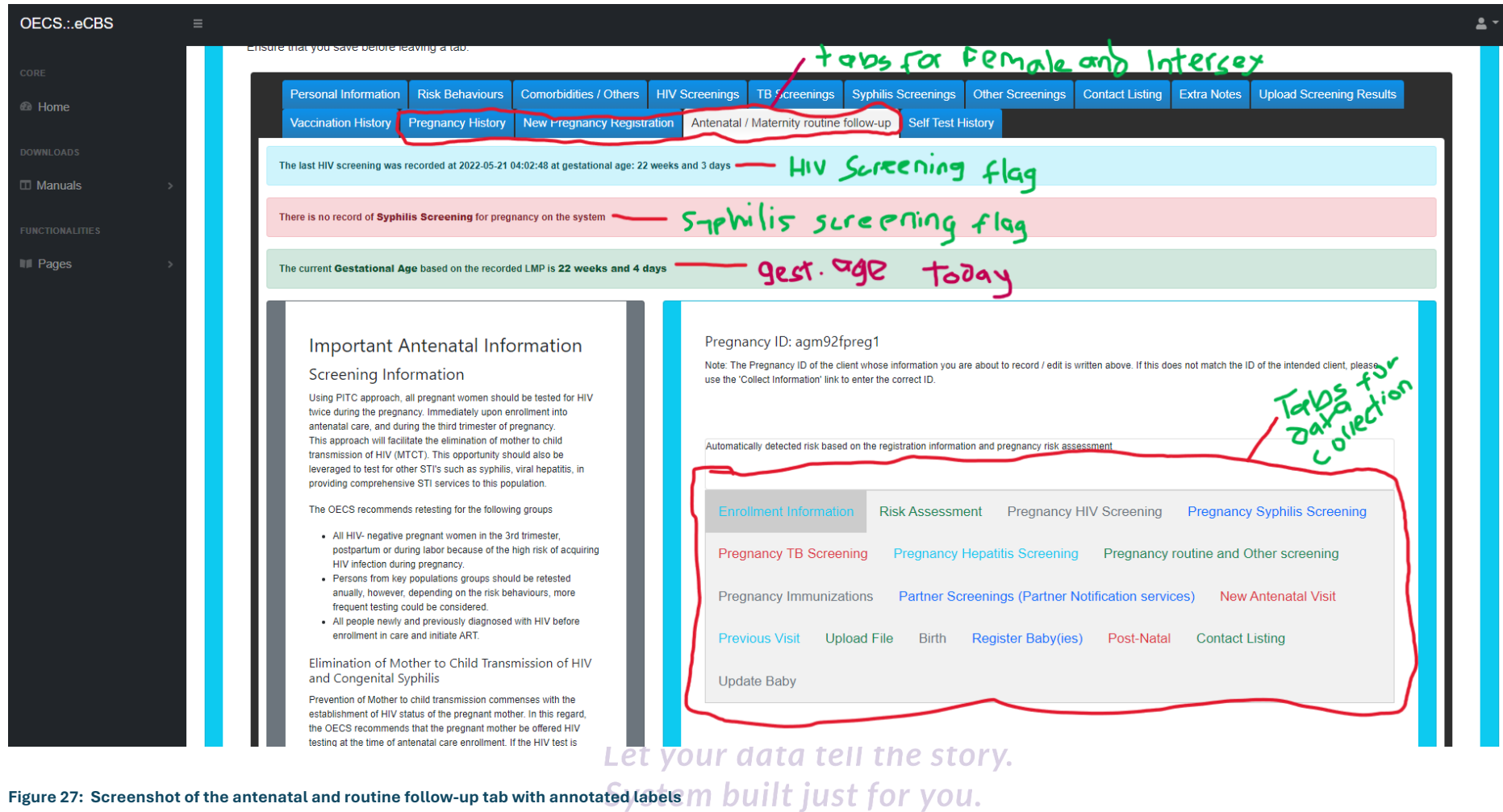


Figure 27: Screenshot of the antenatal and routine follow-up tab with annotated labels

Tab 1: Enrollment Information: The enrollment information form allows for editing and collecting pregnancy registration and baseline information. The data collected are the weight, height, BMI, date of last delivery, type of previous delivery, number of children below age 18,

Date of last normal menstrual period, expected delivery date, drug allergies, family planning history, previous obstetric history, and family medical history. All the fields in this form are editable.

Note: The date of the last normal menstrual period is required during pregnancy registration; the system automatically calculates the expected date of delivery and the gestation age using this date. The enrollment information form holds the date of the last normal menstrual period and the expected delivery date in editable format. When users edit the date of the last normal menstrual period, they ignore the expected delivery date, and the system automatically updates this date after the form is saved.

Tab 2: Risk Assessment. This holds a form that collects the psychological, behavioral, medical, and obstetric risks to the pregnancy.

Tab 3: pregnancy HIV Screening: This holds a form to record HIV screening for this pregnancy. The gestation age at the time of screening is calculated and pre-filled based on the LMP. For entry of back-dated records, the gestation age should be updated in the format as shown in Fig. 29 below

Tab 4: pregnancy Syphilis Screening: This holds a form to record Syphilis screenings for the current pregnancy. The gestation age at the time of screening is calculated and pre-filled based on the LMP. For entry of back-dated records, the gestation age should be updated in the format as shown in Fig. 28 below

Tab 5: pregnancy T.B. screenings: This holds a form to record Tuberculosis screenings for the current pregnancy.

Tab 6: Pregnancy Hepatitis screenings: This holds a form to record Hepatitis screenings for the current pregnancy.

All HIV, Syphilis, and Hepatitis screenings must be recorded using the pregnancy HIV Screening form. Failure to do so will flag the pregnancy as missing the routine pregnancy HIV screening.

Tab 7: Pregnancy routine and other screenings: This holds a form recording all other screenings done during the pregnancy.

Tab 8: pregnancy Immunizations: This holds a form that records all vaccines administered during the pregnancy.

Tab 9: Partner Screening (Partner Notification Services): This holds a form for account creation or account linkage of a partner of the pregnant client. If the partner already has an account in the system, fill out the form using the unique ID of the existing account and create the link. If the partner does not have an existing account, filling out the form establishes the account and the connection. After a successful save, the system redirects to request the release of the partner's file for data collection. Follow the directions from the general population screenings to retrieve the clients' file and continue collecting information.

Pregnancy Immunizations

Partner Screenings (Partner Notification services)

New Antenatal Visit

Previous Visit

Upload File

Birth

Register Baby(ies)

Post-Natal

Contact Listing

Update Baby

Pregnancy Routine HIV Screening

Date of Report

Day

Month

Year

Gestational Age at the time of screening

41 weeks and 6 days

Type of Test

[Choose Type Here]

Indicate type of test kit if Rapid or self test

Test Kit 1

type of test kit

Test Kit 2

type of test kit

Test Result

If parallel testing for rapid test, indicate both results.

Result 1

[Choose Here]

Result 2

[Choose Here]

Test Result Date

Day

Month

Year

Save

HIV Screening History for pregnancy_agm92freg1

Client's HIV screening history sorted from the most recent recorded screenings A blank result means awaiting-result

S/N	Type of Screening	Result	Site of Screening / Record	Gestational Age at Screening	Date Recorded mm-yyyy
1	HIV Rapid Test	indeterminate	Testing Site Grenada	22 weeks and 3 days	21-05-20

S/N

Type of Screening

Result

Site of Screening / Record

Gestational Age at Screening

Date Recorded mm-yyyy

Figure 28: The antenatal HIV Screening record form showing the gestation age at the time of screening

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Tab 10: New antenatal visit: The new antenatal visit form collects information about the fundus height, presentation, and position, the relation of P.P to the brim, fetal heart, date of first fetal movement, edema, Hb, urine (ALB and sugar), B.P, weight, headache, bowels, micturition, discharge, varicose veins, special observations, and advanced obstetric assessment. This tab is an encounter form filled during each visit. All the information saved is available for review in the next tab (the previous visit tab).

Tab 11: Previous visit: It holds several previously collected routine antenatal visit information containers.

Tab 12: Upload file: This allows uploading files or typing/pasting medical reports.

Tab 13: Birth: This holds an updatable form to record the baby's date, time, place, birth notes, and the discharge notes of the mother.

Tab 14: Register baby(ies): This holds a form to register the baby (ies) born. It collects information such as the baby code, sex, names, birth weight, length, head circumference, chest circumference, Apgar score at 1 min, and Apgar score at 5 mins. As a suggestion for the baby code, users can use the pregnancy I.D. and suffix it with the baby number (for multiple gestations). E.g., for a pregnancy I. D agm92fpreg1 with twins born, the baby code for twin 1: agm92fpreg1baby1, and twin 2: agm92fpreg1baby2.

Tab 15: Post-natal: This holds a form that collects the post-natal information of the mother. It collects the weight, B.P., ALB, sugar, Hb, breast and feeding, abdomen, pelvic exam, pap smear, family planning, and any symptoms and duration.

Tab 16: contact listing: This holds a form for listing high-risk partners Or partners at risk for tracing and prevention services.

Tab 17: *update baby*: This allows updating the baby information entered in the register baby tab. Use this form to record the baby's discharge weight and notes.

Take a look at figure 22. Notice the container at the top with three buttons. These buttons are a shortcut to the prevention services link.

The button labeled start risk reduction: links to the risk reduction session form.


The 'get last three recorded risk history' button links to the risk reduction history page where the previous three recorded risk behaviors are retrieved.

The button labeled 'Risk reduction plan history' links to a table containing all the information from previous risk reduction sessions.

5.2.2.1.4 CLIENT'S SCREENING HISTORY

Enter the client's unique ID in the form that asks if screening records exist for the client. If so, a container containing exportable tables grouped by the type of screenings will be displayed.

5.2.2.1.5 REVIEW / UPDATE CLIENT’S PERSONAL INFORMATION



Organisation of
Eastern Caribbean
States

Case Based Surveillance System

Please Enter the Unique ID of the Client whose Information you want to Update

Unique ID

Get Record

Address/Contact

Country of Residence

Education

Gender Identity

IDs

Marital Status

Number of Sexual Partner

Occupation

Pregnant?

Types of Sexual Activities

Sexual Orientation

Dead or Alive

Address	Town	Health District	Parish	Telephone Number
<input type="text" value="Bonne Terre"/>	<input type="text" value="Gros Islet"/>	<input type="text" value="Health District St. Lucia"/>	<input type="text" value="Parish St. Lucia"/>	<input type="text"/>
		*	*	

Update Address

Figure 29: Update personal information tabs

Enter the unique ID of the client in the form and click on the Get Record button. If the Unique I.D. exists, the client's information forms retrieve in tabs.

Tab 1: Address/Contact – Update existing or enter new address / contact of the client.

Tab 2: Country of residence – Update existing or enter the new country of residence and the client's length of stay.

Tab 3: Education – Update or enter the highest level of education of the client.

Tab 4: Gender Identity – Update or select a gender identity for the client

Tab 5: IDs – Update or Enter other forms of Identity for the client

Tab 6: Marital Status – Update or select a marital status for the client

Tab 7: Number of sexual partners – Update or enter the number of sexual partners of the client and the sexual partner test status.

Tab 8: Occupation – Update or Select the occupation of the client.

Tab 9: pregnant? (females only) – select if the client is currently pregnant.

Tab 10: Types of Sexual activities – Update or select the types of sexual activities of the client.

Tab 11: Sexual Orientation – Update or select the sexual orientation of the client.

Tab 12: Dead or Alive – Select or update if the client is dead and the cause of death.

Note that there is an update button in every tab. It is important to save each tab before moving on to the next tab.

5.2.2.1.6 ALL REGISTERED PREGNANCIES

This link holds an exportable table of all pregnancies registered at the assigned testing site of the logged-in user.

5.2.2.1.7 MY RECORDS

This page holds tables of clients' files accessed by the logged-in user and the referrals done by the logged-in. The referrals table groups clients referred for care registration/prevention by those registered in care and those awaiting registration.

5.2.2.1.8 RECORD SELF-TEST DISTRIBUTION

This page holds a form for recording HIV self-test kit distribution. To the right is a table that holds all entries in updatable and searchable form. For entry error, click on the trash button beside the row of data to delete.

5.2.2.1.9 HIV SCREENINGS AT THIS SITE

This page holds an exportable table of the HIV screenings recorded at the logged-In user's site. Above the table is a summary report of the screenings disaggregated by sex.

5.2.2.1.10 SYPHILIS SCREENINGS AT THIS SITE

This page holds an exportable table of the Syphilis screenings recorded at the logged-In user's site. Above the table is a summary report of the screenings disaggregated by sex.

5.2.2.1.11 T.B. SCREENINGS AT THIS SITE

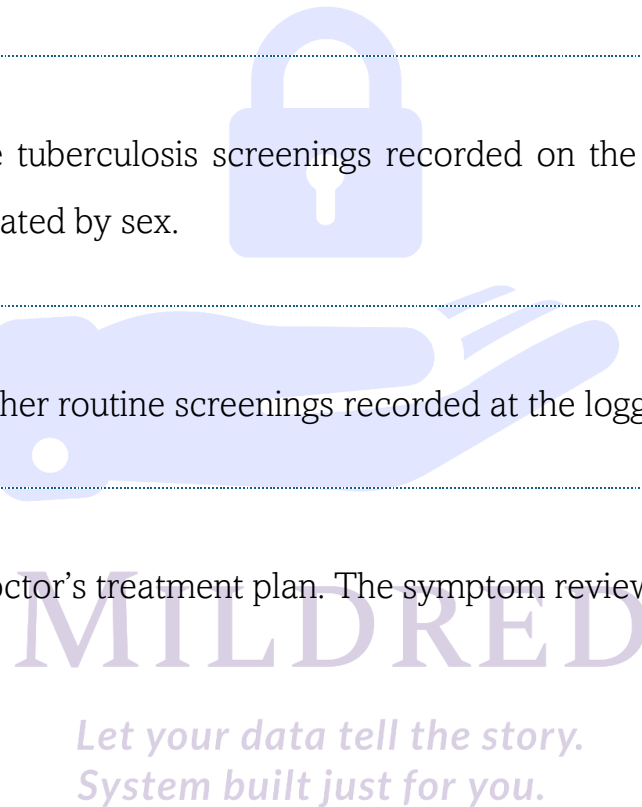
This page holds an exportable table of the tuberculosis screenings recorded on the logged-in user's site. Above the table is a summary report of the screenings disaggregated by sex.

5.2.2.1.12 OTHER SCREENINGS AT THIS SITE

This page holds an exportable table of all other routine screenings recorded at the logged-In user's site.

5.2.2.1.13 CLIENT'S TREATMENT PLAN

Enter the client's unique ID to review the doctor's treatment plan. The symptom review and treatments retrieve in their respective tabs for follow-up.



5.2.2.2 REFERRALS

A user assigned the referrals permission has access to the **REFERRALS** sub-menu of the pages menu. Expand this link to reveal a list of links to referrals functionalities

5.2.2.2.1 REFER NEW HIV CASES FOR CARE REGISTRATION AND MANAGEMENT

This link holds a referral form for referral of confirmed HIV-positive clients for care registration. This referral must be made for all positive clients to enable care registration at the management clinic. This referral generates a care registration form for the client.

5.2.2.2.2 REFER NEW T.B. CASE FOR TREATMENT AND MANAGEMENT

This link holds a referral form for the referral of confirmed or suspected T.B. cases for further evaluation, registration, and management. This referral generates a care registration form for the client.

5.2.2.2.3 REFER FOR OTHER TREATMENT & MANAGEMENT (PREVENTION, STDs & VIRAL HEPATITIS)

This link holds a referral form for referral of clients for treatment of other STDs, Viral Hepatitis, and prevention services. This referral generates a care registration form for the client.

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5.2.2.3 CARE REGISTRATIONS AND INITIAL EVALUATION

A user assigned the care_registration permission can access the **CARE REGISTRATIONS AND INITIAL EVALUATION** sub-menu of the page menu. Expanding this link reveals a list of links to its functionalities.

5.2.2.3.1 VIEW HIV CARE REFERRALS

This links to a page containing an exportable table of all clients referred for HIV care registration. The table contains information on the client's unique I.D., category, name of the referrer, date of referral, date of birth, biological sex, and a button to delete each row of information if there is an error in the referral information.

5.2.2.3.2 VIEW T.B. CARE REFERRAL

This links to a page containing an exportable table of all clients referred for T.B. care registration. The table holds information about the client's unique I.D., category, name of the referrer, date of referral, client's date of birth, biological sex, and a button to delete each row of information if there is an error in the referral information.

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5.2.2.3.3 VIEW OTHER CARE REFERRALS

This links to a page with an exportable table of all clients referred for prevention, Viral hepatitis, and other STD care registration. The columns have the client's unique ID, category, name of the referrer, date of referral, name of the client, date of birth, and biological sex. There is also a button to delete each row of information if there is an error in the referral information.

5.2.2.3.4 HIV, SYPHILIS & HEPATITIS EXPOSED INFANT REGISTRATION

This links to a form for registration of infants exposed to HIV, Syphilis, Hepatitis, or multiple exposures. Enter the Infant's name, sex, date of birth, birth weight and length, feeding type, and mother's unique I.D., and select the exposure (HIV, Syphilis, Hepatitis, HIV & Syphilis, HIV & Hepatitis, Syphilis & Hepatitis, HIV & Syphilis & Hepatitis). A successful registration generates the exposed infant evaluation forms.

5.2.2.3.5 HIV CARE REGISTRATION (ADOLESCENT, ADULT, PEDIATRIC)

This link holds a form for retrieving the registration form generated on referral for care and treatment. Enter the unique I.D of a referred client and click on the "Get registration form" button. If the unique I.D entered matches the unique I.D of a client referred for HIV care registration and management, the one-time registration form is released. The form has the unique I.D, category, name of the referrer, and date of referral. Verify that this is the correct credential of the client to be registered. Enter the registration date and click on the "Register" button. This registration generates the initial evaluation form. The forms generated depend on the client's category.

5.2.2.3.6 T.B. CARE REGISTRATION

This link holds a form for retrieving the registration form generated on referral for care and treatment. Enter the unique I.D of a referred client and click on the "Get registration form" button. If the unique I.D. entered matches, the unique I.D. of a client referred for Tuberculosis care registration and management and the one-time registration form are released. The form has the unique I.D, category, name of the referrer, and date of referral. Verify that this is the correct credential of the client to be registered. Enter the registration date and click on the "Register" button. This registration generates a tuberculosis registration, evaluation, and management care card for the registered client

5.2.2.3.7 OTHER CARE REGISTRATION

This link holds a form for retrieving the registration form generated on referral for care and treatment. Enter the unique I.D of a referred client and click on the "Get registration form" button. If the unique I.D entered matches, the unique I.D of a client referred for prevention, hepatitis, or other STDs care registration and management, the one-time registration form is released. The form has the unique I.D, category, name of the referrer, and date of referral. Verify that this is the correct credential of the client to be registered. Enter the registration date and click on the "Register" button. This registration generates a tuberculosis registration, evaluation, and management care card for the registered client.

5.2.2.3.8 ADULT, PREGNANT & ADOLESCENT INITIAL AND CLINICAL EVALUATION

All clients whose category is Adult, Pregnant, or Adolescent have an initial evaluation form generated on registration. This link holds a form for retrieving the generated forms. Enter the unique I.D. of a registered Adult, Pregnant, or Adolescent client and click on the "Get form" button. Suppose the Unique I.D. is the I.D. of a registered client in the listed category. In that case, a container with five tabbed pages displays. See Fig. 30

All forms in the tabs are updateable. Please enter as much information as is available and update it at a later time when the other information is available.



Figure 30: Adult, Pregnant & Adolescent HIV Initial clinical evaluation form

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Tab 1: Enrollment information – Enter the date the client was confirmed positive, the date of enrollment into care, and the age at enrollment; if previously on ART, select the previous ART (Transfer-in with records, earlier Arv but not transfer-in, PMTCT only, PEP only), enter the treatment regimen, the date started ART and the care entry point.

Tab 2: Baseline Information – Enter the date started ART, the initial weight, the initial clinical stage, the name of the treatment supporter or medication pick-up if ill, the relationship to the treatment supporter, the home-based care provider, and the drug allergies.

Tab 3: Clinical Stage – This is not the main clinical staging form; it only describes the WHO-proposed immunological classification for established HIV infection. It asks for the date of the first WHO clinical stage 1 or 2 diagnosis, the date of the first WHO clinical stage 3 diagnosis, and the date of the first WHO clinical stage 4 diagnosis. Users can skip this form and fill it out later after the client's clinical management visit or later down the line if the client's situation changes.

Tab 4: CD4 Information – This holds a form that collects the baseline and critical CD4 values. It collects the date of the first CD4 request, the date of the first CD4 sample collection/test date and the result, the date of the first CD4 count < 350 and the value, the date of first CD4 count < 200 and the value. Enter as much information as is available and update at a later time when more information is available, or the client gets new results that match one or more of the requested data. Entry of the date of the first CD4 test triggers the CD4 flags on the client's file and marks the next date of CD4 as three months from the date of the first test. If done differently in the clinic, ignore the system timings.

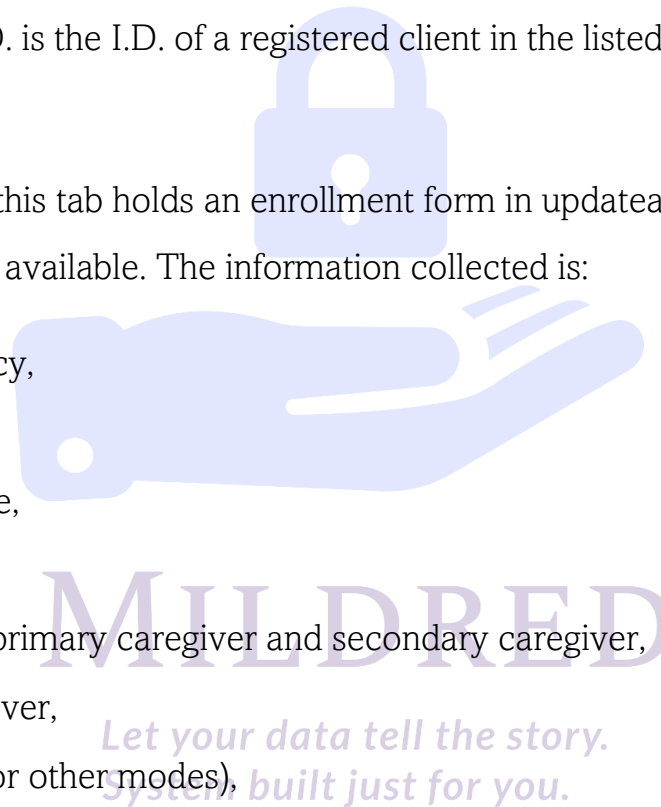
Tab 5: Viral load information – This holds a form that collects the date of the first Viral load test request, the date of the test, and the value. Entry of the date of the first viral load test triggers the Viral load flags on the client's file and marks the next date of the Viral load test as six months from the first test date. If done differently in the clinic, ignore the system timings.

5.2.2.3.9 PEDIATRIC INITIAL & CLINICAL EVALUATION

All clients whose category is pediatric (exposed Infant not included) have a pediatric initial evaluation form generated on registration. This link holds a form for retrieving the generated forms. Enter the I.D. of a registered pediatric client and click on the "Get form" button. Suppose the Unique I.D. is the I.D. of a registered client in the listed category. In that case, a container with five tabbed pages displays.

Tab 1: Pediatric Enrollment Information – this tab holds an enrollment form in updateable form. Enter all the available information and update as more information becomes available. The information collected is:

- Maternal treatment during pregnancy,
- the intrapartum PMTCT treatment,
- the neonatal PMTCT ARV exposure,
- The age of the child at enrollment,
- the type, name, and address of the primary caregiver and secondary caregiver,
- The telephone number of the caregiver,
- The mode of transmission (MTCT or other modes),
- The mode of delivery of the child, the gestation age at delivery, and the duration of membrane rupture,
- The type of test(PCR or antibody) for the final HIV diagnosis and the date of the final HIV diagnosis,
- The date of enrollment into care,



- The date started ARV,
- The date of status disclosure to the child,
- The mother's status (Dead or Alive),
- The father's HIV status,
- The father's address/contact

Tab 2: Clinical Stage—This is not the main clinical staging form; it only describes the WHO-proposed immunological classification for established HIV infection. It asks for the date of the first WHO clinical stage 1 or 2 diagnosis, the date of the first WHO clinical stage 3 diagnosis, and the date of the first WHO clinical stage 4 diagnosis. Users can skip this form and fill it out later after the client's clinical management visit or if their situation changes.

Tab 3: Immunization – This tab holds a form to view or collect all previous and new vaccines administered to the child.

Tab 4: Viral Load – This holds a form that collects the date of the first Viral load test request, the date of the test, and the value. Entry of the date of the first viral load test triggers the Viral load flags on the client's file and marks the next date of the Viral load test as six months from the first test date. If done differently in the user's clinic, ignore the system timings.

Tab 5: CD4 - This holds a form that collects the baseline and critical CD4 values. It collects the date of the first CD4 request, the date of the first CD4 sample collection/test date and the result, the date of the first CD4 count < 350 and the value, the date of first CD4 count < 200 and the value. Enter as much information as is available and update later when more information is available or

the client gets new results that match one or more of the requested data. Entry of the date of the first CD4 test triggers the CD4 flags on the client's file and marks the next date of CD4 as three months from the date of the first test. If done differently in the clinic, ignore the system timings.



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Case Based Surveillance System

Pediatric Initial & Clinical Evaluation

Personal Information

Unique ID

12345

Gender

male

Current Age

0

Pediatric Enrollment Information

Clinical Stage

Immunizations

Viral Load

Cd4

maternal treatment during pregnancy

ABC + 3TC

☐TDF/FTC/EFV

☒ABC + 3TC

☐AZT/3TC/EFV

☐ABC+3TC+DTG

☐TDF/FTC

Doroyth

Doroyth

Name of Primary Caregiver

Doroyth

Type of Primary Care Giver

biological-parent

biological-parent

Name of Secondary Caregiver

Type of Secondary Care Giver

Address of Primary Caregiver

La Tante St. David

La Tante St. David

Address of Secondary Caregiver

intrapartum PMTCT treatment

ABC+3TC

☐TDF+FTC+EFV

☒ABC+3TC

☐AZT/3TC/EFV

☐ABC+3TC+DTG

☐TDF+FTC

other

neonatal PMTCT ARV exposure

AZT + sd NVP

☐AZT

☒AZT + sd NVP

other

Age of Child at Enrollment

Logged in as:
test surveillance

Tabbed pages

Figure 31: Pediatric HIV initial clinical evaluation card

All forms in the tabs are updateable. Enter as much information available and update at a later time when the other information is available.

5.2.2.3.10 HIV EXPOSED INFANT EVALUATION

All clients whose category is exposed have an exposed infant initial evaluation form generated on registration. This link holds a form for the retrieval of the generated forms. Enter the I.D of a registered exposed client and click on the "Get form" button. Suppose the Unique I.D is the I.D. of a registered client in the listed category. In that case, a container with five tabbed pages displays. See Fig. 32

Tab 1: Exposed Infant Enrollment Information – this tab holds an enrollment form in updateable form. Enter all the available information and update as more information becomes available. The information collected is:

- Maternal treatment during pregnancy,
- the intrapartum PMTCT treatment,
- the neonatal PMTCT ARV exposure,
- The age of the child at enrollment,
- the type, name, and address of the primary caregiver and secondary caregiver,
- The telephone number of the caregiver,
- The mode of transmission (MTCT or other modes),

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- The mode of delivery of the child, the gestation age at delivery, and the duration of membrane rupture,
- The type of test(PCR or antibody) for the final HIV diagnosis and the date of the final HIV diagnosis,
- The date of enrollment into care,
- The date started ARV,
- The date of status disclosure to the child,
- The mother's status (Dead or Alive),
- The father's HIV status,
- The father's address/contact

Tab 2: Exposed Infant screenings – This holds a form recording up to 4 HIV screening information. It collects the age at the screening, the screening date, the type (PCR/Antibody), and the test result.

Tab 3: Immunization – This tab holds a form to view/record all previous/new vaccines administered to the child.

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Case Based Surveillance System

Exposed Infants Initial & Clinical Evaluation

Personal Information

Unique ID

djpj01

Mother's Unique ID

djj94f

Date of Birth

01-February-2019

Gender

female

Exposed Infants Enrollment Information

Exposed Infants Screening

Immunizations

maternal treatment during pregnancy

☐TDF/FTC/EFV

☐ABC + 3TC

☐AZT/3TC/EFV

☐ABC+3TC+DTG

☐TDF/FTC

Other

intrapartum PMTCT treatment

☐TDF+FTC+EFV

☐ABC+3TC

☐AZT/3TC/EFV

☐ABC+3TC+DTG

☐TDF+FTC

other

neonatal PMTCT ARV exposure

☐AZT

☐AZT + sd NVP

other

Age of Child at Enrollment

3 and 1/2 years

3 and 1/2 years

Name of Primary Caregiver

dorothy john

Type of Primary Care Giver

biological-parent

biological-parent

Name of Secondary Caregiver

james joseph

Type of Secondary Care Giver

family-friend

family-friend

Address of Primary Caregiver

new montrose

new montrose

Figure 32: HIV Exposed infant evaluation card

5.2.2.3.11 REGISTERED CLIENTS (HIV)

This link contains two exportable tables listing all registered HIV care and treatment clients. Table 1 lists adult, adolescent, pediatric, and pregnant clients with unique I.D., registration date, registered by, category, and date of referral as the column labels, while Table 2 lists exposed infants with column labels unique I.D., date of birth, sex, date registered, registered by and exposure.

5.2.2.3.12 REGISTERED CLIENTS (TUBERCULOSIS)

This link holds two exportable tables that list all registered Tuberculosis care and treatment clients. Table 1 lists adult, pregnant, and adolescent clients with unique I.D., registration date, category, and registered by as the column labels. Table 2 lists pediatric clients with column labels unique I.D., registration date, category, and registered by.

5.2.2.3.13 REGISTERED CLIENTS (OTHERS)

This link holds three exportable tables that list all registered other care and treatment clients. Table 1 lists adult, pregnant, and adolescent clients with unique I.D., registration date, category, and registered by as the column labels. Table 2 lists pediatric clients with column labels unique I.D., registration date, category, and registered by. Table 3 lists the exposed infants registered for other care and treatment with column labels, unique I.D., date registered, and exposure.

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5.2.2.4 PREVENTION & CONTROL / PMTCT

A user granted the prevention_control permission can access the page menu's **PREVENTION & CONTROL / PMTCT** sub-menu. Expand this link to reveal a list of links to its functionalities

5.2.2.4.1 TRACK CLIENT'S RISK HISTORY

Enter the client's unique I.D on the form that presents and click on the get button. Suppose records exist for the unique I.D. entered. In that case, the last three recorded risk behaviors display in separate containers with the most recent first.

5.2.2.4.2 RISK REDUCTION

Enter the client's unique ID on the form that appears and click on the “get client” button. If the unique ID entered is valid, a risk reduction session form is generated for the client.

5.2.2.4.3 RISK REDUCTION HISTORY

Enter the client's unique I.D on the form that presents and click on the get client button. Suppose the unique I.D entered is valid, and records exist for the client. In that case, the page populates with an exportable table of the previously recorded information.

5.2.2.4.4 LISTED CONTACT

This page holds two exportable tables of all the contacts listed from the antenatal clinics and recorded from the other clinics. The table columns are contact code, date listed, unique I.D., contact's name, address, telephone number, gender of the contact, the status, and report.

5.2.2.4.5 REPORT TRACING

This page holds two forms. Form 1: Enter the contact code of a contact listed by a pregnant client, and Form 2: enter the contact code for contacts listed from other clinics. Entry of a valid contact code on the correct form generates a report form for the contact. The form collects the date of the report/tracing, a text field to leave notes about the tracing or tracing attempts, and a result button to mark as traced when the tracing is complete.

5.2.2.4.6 PREP / PEP REFERRALS

This link holds a referral form for clients to be referred for treatment of other STDs, Viral Hepatitis, and prevention services. This referral generates a care registration form for the client.

5.2.2.4.7 UNTRACED CONTACT LIST

This page holds two exportable tables of listed contacts/partners that require action. The first table contains untraced contacts/partners of pregnant clients, and the second table has untraced contacts/partners from the general population.

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5.2.2.4.8 PREGNANT CLIENT REGISTRATION /PMTCT DATA FORM

At the top of the page is a flag; beneath the flag is a form for retrieving the previous PMTCT registration form for an update. A green flag indicates no positive pregnant client and requires no action. A blue flag indicates pregnant clients whose HIV/Syphilis lab results are reactive/positive. Beneath the flag is a get list button. Click on the button to get a table of all flagged clients. The table's columns are unique I.D, pregnancy I.D, date created, and a get form button. Click on the get form button on the row of the unique I.D whose PMTCT registration form to generate. Figure 30 shows the form. Fill in the information required on the form and save. To update the saved PMTCT form, use the search form beneath the flag, shown in figure 33.



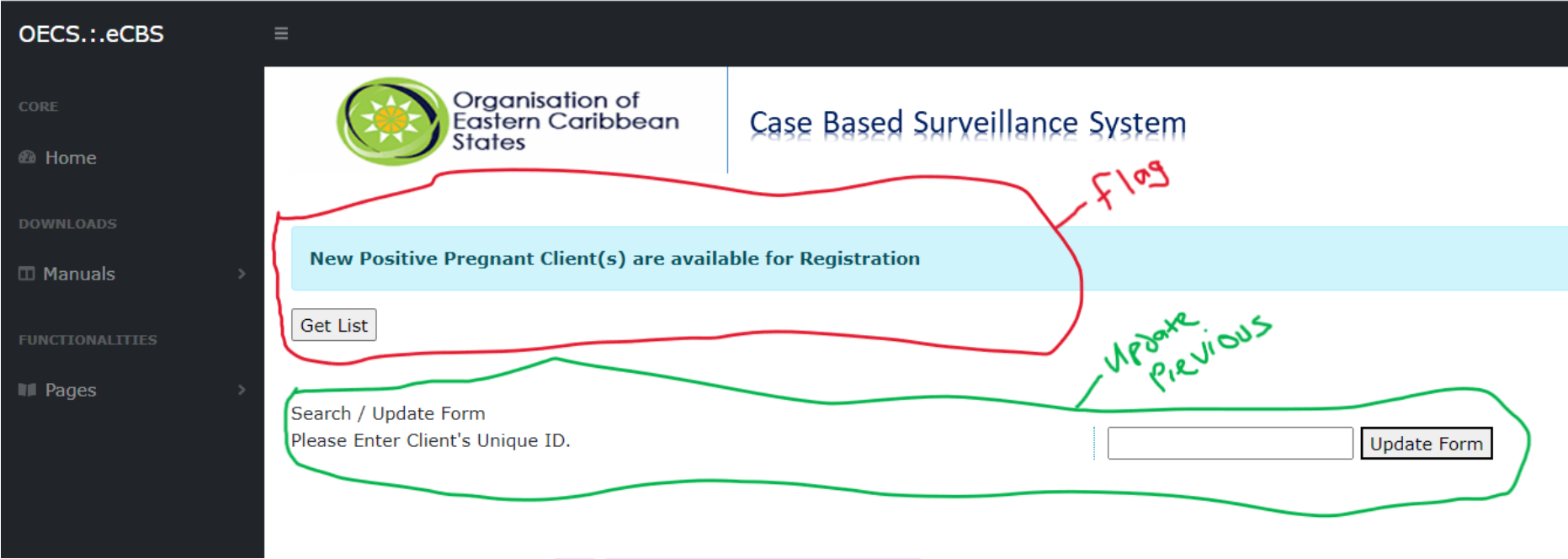


Figure 33: Image of the PMTCT Home page

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PMTCT Data Form / Pregnant Client Registration

UNIQUE ID 0000skn	PREGNANCY ID 0000skn5preg	ESTIMATED GESTATIONAL AGE <input type="text"/> Weeks	ESTIMATED DATE OF DELIVERY Day <input type="text"/> Month <input type="text"/> Year <input type="text"/>
HEALTH CENTER <input type="text"/>	DISTRICT <input type="text" value="[Select Here]"/>	NAME OF PHYSICIAN <input type="text"/>	
Syphilis Test Status? reactive	if Positive, has treatment commenced? <input type="text" value="[Choose Here]"/>	Number of children under 15 years of age <input type="text"/>	
<input type="button" value="Save"/>			

Figure 34: PMTCT data / registration Form

5.2.2.4.9 PMTCT REGISTRATION HISTORY

Enter the client's unique I.D. on the form to get information on all PMTCT registrations recorded for the client for previous pregnancies.

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5.2.2.5 SCREENINGS, CATEGORY/MORTALITY UPDATES

A user granted the updates can access the **page's menu SCREENINGS, CATEGORY / MORTALITY UPDATES** sub-menu. Expand this link to reveal a list of links to its functionalities.

5.2.2.5.1 ORDER/UPDATE SCREENINGS

Enter the unique I.D of the client to get screening forms for data entry. If the unique I.D entered is correct, a container with seven tabbed pages displays.

Tab 1: HIV Screening holds the HIV screening record form. Enter the date of the record, select the type of test, the testing modalities used, and the name of the test kit used. For rapid parallel testing, enter both the test kit and results. For serial testing, users can enter one save and the next or wait for both results and enter both simultaneously. For other types of testing, leave the test kit field blank and fill in just one result field.

Tab 2: T.B. Screenings – holds the T.B. screening record form. Enter the date, the type of test, the induration (for TST), the result, and the result date.

Tab 3: Syphilis Screenings – holds the Syphilis screenings record form. Select the record date, the type of test, the titer, the result, and the result date.

Tab 4: Other Screenings – holds the form to record other screenings. Select the record date, the type of screening, the result text/selection, and the test result date.

Tab 5: *Extra Notes* – holds a form to leave additional notes about the client for follow-up.

Tab 6: *Upload Screening results* – holds a form to upload or type screening reports.

Tab 7: *Drug resistance Testing* – This holds a form to enter the drug-resistance test result. Enter the information on the form and for the test result, use the Add row button to add new rows to enter multiple results. Figure 35 shows the drug-resistance test record form.



HIV ScreeningsTB ScreeningsSyphilis ScreeningsOther ScreeningsExtra NotesUpload Screening resultDrug Resistance Testing

Criteria for HIV Drug Resistance Testing:

- Naïve patient considering starting antiretroviral treatment.
- Patients experiencing virological failure as defined by two consecutive viral load tests at least one month apart, demonstrating either a failure to suppress the Viral load below 250 copies/mL within 16 weeks after initiating therapy or virological rebound after a formerly successful regimen without complicating factors such as vaccination or opportunistic infection.
- Pregnant women close to delivery

Record Date

Day

Month

Year

Most recent CD4 Count / Viral Load

Does patient meet criteria for virologic failure?

[Choose Here]

Is a change of ART under consideration?

[Choose Here]

Drug Resistance

☐ HIV Drug resistance testing

☐ Integrase resistance testing

☐ GP-41 resistance testing

Tropism

Criteria for Eligibility for V3 Genotyping:
Consideration for treatment with a CCR5 inhibitor & Viral Load > 500 copies/mL

☐ V3 Genotyping (Tropism / CCR5)

☐ Proviral HIV DNA Tropism (V3)

☐ HLA-B*57:01 Abacavir Hypersensitivity testing

Result of drug resistance testing

Drug Name

Mutations

[Choose Resistance]

Genotypic Susceptibility Sc

Susceptibility on phenotyp

add row

Save

Figure 35: Drug-resistance test form

5.2.2.5.2 UPDATE CLIENT'S CATEGORY

To update the client's category, enter the client's unique ID. If the I.D. matches the I.D. of a client in care, the system generates a form for the change. Select a new category from the options on the form and click on the update button. Once the client's category changes, a new initial and clinical evaluation form is generated. Fill out the new initial evaluation form. Changes between adolescents and adults have no change in the initial evaluation form.

5.2.2.5.3 REGISTER DEATHS

Enter the client's unique I.D on the form that presents. A death registration form is displayed for the client. Change the status from Alive to dead, select the cause of death from the option (HIV death, HIV-related death, unknown), enter the date of death, and click on the update button.



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5.2.2.6 PSYCHO-SOCIAL SUPPORT / ADHERENCE COUNSELING

A user granted the `psycho-social_adherence_counselling` permission can access the **PSYCHO-SOCIAL SUPPORT / ADHERENCE COUNSELING** sub-menu of the page menu. Expand this link to reveal a list of links to its functionalities

5.2.2.6.1 SCHEDULE COUNSELING APPOINTMENTS

There are three types of counseling sessions.

1. Adherence readiness assessment
2. Adherence strategy workplan
3. Adherence follow-up assessment

Enter the client's unique I.D on the form that presents and select the button that holds a label for the type of counseling appointment.

Note: a client can have only one pending appointment at a time. All users granted the `psycho-social_adherence_counselling` permission must also have the routine permission to enable appointment scheduling.



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5.2.2.6.2 PENDING COUNSELING APPOINTMENTS

This page holds an exportable table of scheduled counseling appointments, the scheduled dates, and the session type. On each row is a delete symbol. Click the symbol to delete an appointment in error or with the wrong session type and reschedule the appointment.

5.2.2.6.3 START COUNSELING APPOINTMENTS

Enter the client's unique ID to retrieve the forms generated for the session. The type of form generated depends on the kind of session scheduled. At the top of each session, forms are the CD4 and Viral load flags containing information about the test due date.

For the Adherence readiness assessment session, the pretreatment adherence counseling form collects information that assesses the client's knowledge of HIV, HIV status, misconceptions, medication side effects, stigma, support group, mental state, and readiness to take pills daily for the rest of life.

For the Adherence Strategy workplan: The form collects information on the strategy to get a client ready for adherence. It records the medication used for practice trials/simulations.

For Adherence follow-up assessment, the form examines the medications Prescribed to the clients and asks questions about missed doses up to three days before the appointment. It records the circumstances under which the client missed the drug and the issues to be addressed to improve adherence.

5.2.2.6.4 PAST COUNSELING ENCOUNTER

Enter the client's unique ID to retrieve the last counseling encounter. The previous counseling encounter returns in three tabs if the unique I.D. exists.

Tab 1: holds the last pretreatment adherence counseling if there was a previous session

Tab 2: holds the adherence follow-up assessment if there was a previous session

Tab 3: The adherence strategy work plan is held if there was a previous session.

5.2.2.7 APPOINTMENTS / PATIENT MONITORING

A user granted routine permission can access the **APPOINTMENT / PATIENT MONITORING** sub-menu of the page menu. Expand this link to reveal a list of links to its functionalities.

5.2.2.7.1 VIEW PENDING APPOINTMENTS

This link holds a table of all scheduled clinical management and lab test appointments. The columns of the table are the client's unique I.D., the purpose of the appointment, the date created and created by, and the date of the appointment. The trash sign beside each appointment row would delete the appointment if it were created wrongly or in error.

5.2.2.7.2 SCHEDULE NEW CLINICAL MANAGEMENT / CD4 / VL APPOINTMENTS

Enter the unique I.D., reason for the appointment, and date on the form to schedule the appointment.

5.2.2.7.3 SCHEDULE COUNSELING APPOINTMENT

There are three types of counseling sessions.

1. Adherence readiness assessment
2. Adherence strategy workplan
3. Adherence to follow-up assessment

Enter the client's unique ID on the presented form and select the button that holds a label for the type of counseling appointment.

Note: a client can have only one pending appointment at a time.

5.2.2.7.4 CHANGE APPOINTMENT DATE

Enter the unique I.D. of a client with a pending clinical management appointment. Only the date of the appointment is editable. If there are other errors, delete the appointment and recreate it.



5.2.2.7.5 CREATE VISIT/RECORD VITAL SIGNS.

For a client with a clinical management appointment, the create visit/record vital sign link collects the client's vital signs and statistics to release the care card for clinical management. This process is a strict rule for HIV care and treatment for registered clients and is optional for other types of clients. Clients registered for T.B., prevention, and other STDs only need to register for care to release the care card.

5.2.2.7.6 GET ADHERENCE READINESS INFORMATION.

This page lists all clients who have had a treatment adherence readiness assessment. It displays the list in two tables. Table 1: Those assessed via psychological assessment and Table 2: Those assessed via a strategy workplan.

5.2.2.7.7 MONITOR CLIENTS

This link displays three tables in three tabs.

Tab 1: CD4 and Viral load monitoring lists all the clients, their CD4/viral load test status, and their due dates.

Tab 2: Medication Adherence Assessment Report. This tab lists all clients on ART who have had a follow-up assessment for adherence.

Tab 3: Missed Appointments: This lists clients who have missed an appointment and have not been to the clinic since the appointment.

5.2.2.7.8 ROUTINE TESTS/RESET DATES

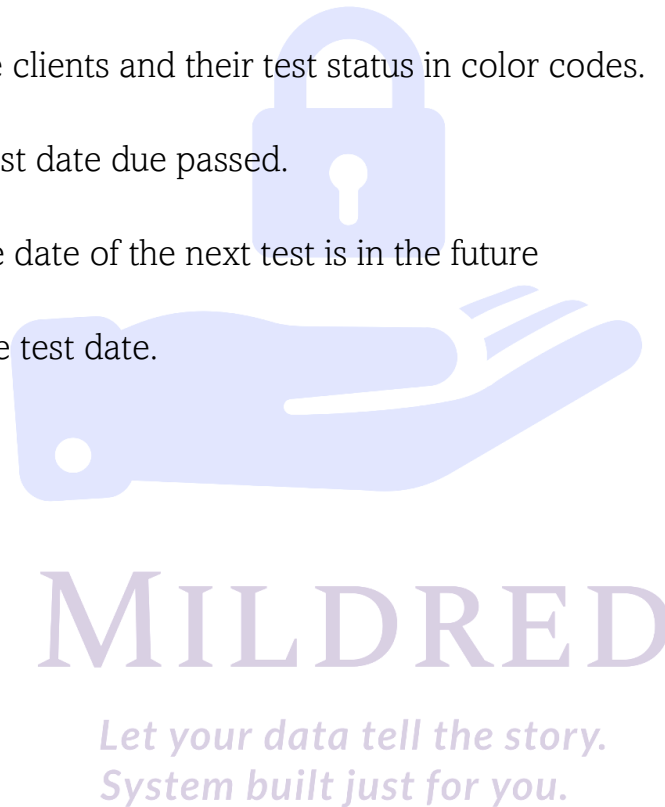
This link takes you to a page with a form and a table. The form is at the top of the page. Enter the client's unique ID and select the examination whose date you want to reset.

Beneath the form is a table that lists all the clients and their test status in color codes.

Red means no baseline test recorded or test date due passed.

Green means the test status is OK, and the date of the next test is in the future

Blue means that the current date is the due test date.



5.2.2.8 CLINICAL MANAGEMENT

A user granted the clinical_management permission can access the **CLINICAL MANAGEMENT** sub-menu of the pages menu. Expand this link to reveal a list of links to its functionalities

5.2.2.8.1 WAITING CLIENTS

This page contains an exportable table containing information on all triaged clients waiting for clinical management. The table columns hold the client's unique I.D., the visit's purpose, and the triage nurse's or staff's name. All clients for HIV clinical management must be on this list to access the care card to record the clinical management encounter.

5.2.2.8.2 HIV CARE CARD

Enter the unique I.D. of a triaged client or of a client whose I.D. appears on the waiting client list. The care card is released for data collection if the I.D. entered is found amongst triaged clients. There are two types of care cards.

1. **The Adult / Adolescent / Pregnant client care card:** the system presents the forms based on the category of the client. If the client category is not the desired category for the appropriate form generation. At the top of the page are flags and trends of important values. The flags hold information about the Cd4 and viral load tests, the cd4 and viral load values recorded over time, the BMI trends, the adherence assessment report for clients on ART, and the results of drug resistance tests, if any. A link to record, order, update, or view screenings is beneath the flags and above the day's encounter forms. Click on the link and enter the client's unique I.D.

The last recorded vital signs and statistics are displayed along with the basic demographic information of the client above the form tabs.

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HIV Care Card (Adult, Adolescent, Pregnant)

Today's Encounter

Demographic Information

Unique ID	Sex	Current Age
agm92f	female	30

Vital Signs and Statistics

Temperature(°C)	Temperature(°F)	Blood Pressure	Pulse	Respiratory Rate
39	102.2	140/90	120	25
Weight(lbs)	Weight(Kgs)	Height(cm)	Height(m)	BMI
227.9	103.6	175	1.75	33.8

Pediatric Only

Head Circumference

Chest Circumference

Mid - Upper Arm Circumference

(cm)

(cm)

(cm)

Vital Signs & Statistics

Adult / Adolescent Symptom Review

TB Symptom Checklist

Update Cd4 / Viral Load

Adult / Adolescent Clinical Staging

HIV Adverse Drug Reaction

Mental Health Assessment / Evaluation

Treatment

Tuberculosis Registration Information

Previous TB Symptom Check

TB Diagnosis & Category

TB Drug Resistance testing

Treatment Monitoring

TB Adverse Effect & Effect Management

TB Treatment Outcome

Hepatitis Registration

Hepatitis Diagnosis, Diagnostic Data & Category

Hepatitis Risk Factors & Reason for Test

Chancroid, Chlamydia, Gonorrhea, Herpes, Syphilis(all Stages), PID

Temperature

Blood Pressure

Pulse

Respiratory Rate

°C

Blood Pressure mmHg

Pulse

Respiratory Rate

°F

Vital Signs History

Copy CSV Excel PDF Print

Search:

S/N Temp B.P Pulse R.R Weight Height BMI HC/CC/MUAC

Figure 36: Adult, Adolescent, and Pregnant HIV care card

Tab 1: Vital signs & statistics – This tab holds a form for recording vital signs and statistics and an exportable table holding all previously recorded values.

Tab 2: Adult/Adolescent symptom review – This tab holds an encounter form for recording symptoms and observations for the clinical management encounter. The fields collected are: presenting complaints, additional comments/information, detailed findings, new OI/other problems, family planning info, patient's disposition(withdrawal), assessment, plan, ARV therapy, and treatment Regimen. The form clears for the next entry after a successful save. Note that the values saved cannot be edited. In the event of missing information, fill out a new form. The previous forms saved are available in the previous encounter link.

Tab 3: TB Symptom checklist – This encounter form holds questions that classify the client as a TB suspect or not suspect and records information about follow-up screenings, treatment, and prophylaxis. After saving the entries, the form clears for a new entry. The previous TB symptom checklist tab holds the previously saved entries. Once saved, an edit is not possible. For missing information or change in information, fill out the form again.

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Vital Signs & Statistics	Adult / Adolescent Symptom Review	TB Symptom Checklist	Update Cd4 / Viral Load	Adult / Adolescent Clinical Staging	HIV Adverse Drug Reaction
Mental Health Assessment / Evaluation	Treatment	Tuberculosis Registration Information	Previous TB Symptom Check	TB Diagnosis & Category	TB Drug Resistance testing
TB Adverse Effect & Effect Management	TB Treatment Outcome	Hepatitis Registration	Hepatitis Diagnosis, Diagnostic Data & Category		Hepatitis Risk Factors & Reason for Test
Chancroid, Chlamydia, Gonorrhea, Herpes, Syphilis(all Stages), PID					

Record Date	8
	*
	June
	*
	Year
	*

In the last 12 months have you had any of the following symptoms?

A. Coughing for more than 3 weeks?	[Choose Here]
B. Persistent Fever	[Choose Here]
C. Coughing up blood / Hemoptysis	[Choose Here]
D. Excessive night sweats	[Choose Here]
E. Hoarseness	[Choose Here]
F. Chest Pain	[Choose Here]
G. Fatigue	[Choose Here]
H. Loss of Appetite	[Choose Here]
I. Unexplained weight loss	[Choose Here]
J. Has the individual been previously diagnosed or treated for TB?	[Choose Here]
K. has the individual been in contact with a person known to have TB or long standing cough?	[Choose Here]

if yes to one or more questions, continue evaluation. if No to all questions, stop evaluation

. Note: Cough >= 3 weeks indicates TB suspect irrespective of other symptoms and they should be sent for AFB

SUSPECT/NOT SUSPECT	REFERRED FOR TB SCREENING	REFERRED FOR CHEST X-RAY	REFERRED FOR TB TREATMENT	TPT / CPT (Isoniazid or TB / Co-trimoxazole Preventive Therapy)
[Choose Here]	[Choose Here]	[Choose Here]	[Choose Here]	[Choose Here]

Save

Figure 37: TB Symptom checklist form

Tab 4: Update CD4/Viral load – This tab holds a form to record the most recent CD4/Viral load values if not already recorded.

Tab 5: Adult/Adolescent Clinical Staging – This holds a form that lists various symptoms categorized in stages. Select all of the client's symptoms to stage the client.

Tab 6: HIV Adverse Drug Reaction – This holds a form to select the adverse drug reactions experienced by clients on ART.

Tab 7: Mental Health Assessment/Evaluation – This form collects assessment answers that track client symptoms and presentation changes. It also captures their DSM-5 diagnosis category over time. Each of the assessment questions is rated on a 5-point scale. See figure 39 for the scale, domain of assessments, and threshold for further inquiry. Beneath the Instruction is the encounter form (figure 40) to record answers to the assessment questions. Once submitted, the form clears for a new entry.

*Let your data tell the story.
System built just for you.*

HIV / AIDS Mental Health Diagnosis and Assessment Measure Form

This form tracks changes in the individual's symptom presentation and captures their DSM-5 diagnosis category over time. Each item on the measure is rated on a 5-point scale (0 = none or not at all, 1 = slight or rare: less than a day or two, 2 = mild or several days, 3 = moderate or more than half the days, 4 = severe or nearly every day)

The score on each item within a domain should be reviewed. Because additional inquiry is based on the highest score on any item within a domain, the clinician is asked to indicate the score in the "Highest domain score" column. A rating of mild (i.e 2) or greater on any item within a domain (except for substance use, suicidal ideation, sexual behavior and psychosis) shall serve as a guide for further additional inquiry

For substance use, suicidal ideation, sexual behavior and psychosis, a rating of slight (i.e , 1) or greater on any item within the domain indicates a need for further follow-up to determine if a more detailed assessment and / or immediate action is needed.

The tool should be completed at regular intervals as clinically indicated but at a minimum at baseline and every 90 days thereafter. Consistently high scores on a particular domain may indicate significant and problematic symptoms for the individual that might warrant further assessment, treatment and follow-up. Clinical judgement should guide decision making.

This measure consists of 27 questions that assess 15 domains and includes collection of the mental health diagnosis, medication status and HIV risk behavior practices.

Domain	Domain name	Threshold to guide further inquiry
1.	Depression	Mild or greater
2.	Anger	Mild or greater
3.	Mania	Mild or greater
4.	Anxiety	Mild or greater
5.	Trauma	Mild or greater
6.	Suicidal ideation	Slight or greater
7.	Psychosis	Slight or greater
8.	Sleep problems	Mild or greater
9.	Memory	Mild or greater
10.	Repetitive thoughts and behaviors	Mild or greater
11.	Stigma	Mild or greater
12.	Personality functioning	Mild or greater
13.	Substance use	Slight or greater
14.	Sexual behavior	Mild or greater
15.	Dissociation	Mild or greater

Figure 38: Mental Health Evaluation Instruction

Assessment measure							
domain	How much or how often during the past 2 weeks have you:	Measure					Highest domain score
		None : Not at all	Slight : Rare, less than 2 days	Mild: Several days	Moderate: More than half the days	Severe: nearly every day	
1. Depression	1. Had little pleasure in doing things? 2. Felt down, depressed or hopeless?	<input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 1	<input type="radio"/> 2 <input type="radio"/> 2	<input type="radio"/> 3 <input type="radio"/> 3	<input type="radio"/> 4 <input type="radio"/> 4	<input type="text"/>
2. Anger	3. Felt more irritated, grouchy, or angry than usual?	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="text"/>
3. Mania	4. Slept less than usual but still have a lot of energy? 5. Started lots more project than usual or doing riskier things than usual?	<input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 1	<input type="radio"/> 2 <input type="radio"/> 2	<input type="radio"/> 3 <input type="radio"/> 3	<input type="radio"/> 4 <input type="radio"/> 4	<input type="text"/>
4. Anxiety	6. Felt nervous, anxious, frightenend, worried or on edge? 7. Felt panic or were unusually frightened? 8. Avoided situations that make you anxious?	<input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 1 <input type="radio"/> 1	<input type="radio"/> 2 <input type="radio"/> 2 <input type="radio"/> 2	<input type="radio"/> 3 <input type="radio"/> 3 <input type="radio"/> 3	<input type="radio"/> 4 <input type="radio"/> 4 <input type="radio"/> 4	<input type="text"/>
5. Trauma	9. Directly experienced or witnessed a traumatic event? 10. Attempted to avoid distressing memories, thoughts or feelings about or closely associated with the traumatic event?	<input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 1	<input type="radio"/> 2 <input type="radio"/> 2	<input type="radio"/> 3 <input type="radio"/> 3	<input type="radio"/> 4 <input type="radio"/> 4	<input type="text"/>
6. Suicidal ideation	11. Had serious thoughts of hurting yourself?	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="text"/>
7. Psychosis	12. Heard things other people couldn't hear such as voices, even when no one was around? 13. Felt that someone could hear your thoughts, or that you could hear what another person was thinking?	<input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 1	<input type="radio"/> 2 <input type="radio"/> 2	<input type="radio"/> 3 <input type="radio"/> 3	<input type="radio"/> 4 <input type="radio"/> 4	<input type="text"/>
8. Sleep problems	14. Had problem with sleep that affected your sleep quality overall?	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="text"/>
9. Memory	15. Had problems with memory (e.g learning new information) or with location (e.g, finding your way home)?	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="text"/>
10. Repetitive thoughts and behaviors	16. Had unpleasant thoughts, urges, or images that repeatedly enter your mind? 17. Felt driven to perform certain behaviors or mental acts over and over?	<input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 1	<input type="radio"/> 2 <input type="radio"/> 2	<input type="radio"/> 3 <input type="radio"/> 3	<input type="radio"/> 4 <input type="radio"/> 4	<input type="text"/>
11. Stigma	18. Felt that people treated you differently because of your HIV status? 19. Felt out of place in the society or that you do not belong?	<input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 1	<input type="radio"/> 2 <input type="radio"/> 2	<input type="radio"/> 3 <input type="radio"/> 3	<input type="radio"/> 4 <input type="radio"/> 4	<input type="text"/>
12. Personality functioning	20. Not known who you were? 21. Not felt close to other people or enjoyed your relationship with them?	<input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 1	<input type="radio"/> 2 <input type="radio"/> 2	<input type="radio"/> 3 <input type="radio"/> 3	<input type="radio"/> 4 <input type="radio"/> 4	<input type="text"/>
13. Substance Use	22. Drank at least 4 drinks of any kind of alcohol in a single day? 23. Used any medicines ON YOUR OWN, that is, without a doctor's prescription, or greater amounts or longer than prescribed OR illicit drugs? 24. Tried to reduce or stop your drug or alcohol use? 25. Engaged in sexual activity to numb painful feelings and / or memories OR to reduce anxiety	<input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 1 <input type="radio"/> 1 <input type="radio"/> 1 <input type="radio"/> 1	<input type="radio"/> 2 <input type="radio"/> 2 <input type="radio"/> 2 <input type="radio"/> 2	<input type="radio"/> 3 <input type="radio"/> 3 <input type="radio"/> 3 <input type="radio"/> 3	<input type="radio"/> 4 <input type="radio"/> 4 <input type="radio"/> 4 <input type="radio"/> 4	<input type="text"/>
14. Sexual behavior	26. Felt guilt or shame either before or after engaging in sexual activity?	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="text"/>
15. Dissociation	27. Feeling detached or distant from yourself, your body,	<input type="radio"/> 0	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="text"/>

Figure 39: Mental Health Assessment Questions

Tab 8: Treatment – Take a look at figure 41. The treatment form has three sections. The top holds a table of drug pick-up history from the pharmacy if recorded. Beneath the history is a form on the left for recording the prescription given to the client. Use the Add Row button to add new rows as only one drug can be entered on a row. The right side holds the history of recorded prescriptions over time regardless of dispense or pick-up.

Client most recent RX history *Pharmacy Dispense History*

S/N	Pharmacy Name	Prescribed By	Prescription Date	Medication Name	Strenght	Quantity	Frequency	Date of Dispense
1	Pharmacy St. Lucia	Dr. Jones	2022-06-08	Doxycycline	100 mg	30	OD	2022-06-08

Treatment

Add Row **Save** *Enter treatment*

Treatment history *Rx history*

Id	Date prescribed	Drug	Treatment Phase	Dose	Duration	Notes
3	2022-06-08 03:46:43	AZT/3TC/EFV (600 MG / 300 MG / 600 MG)	first-line-hiv	600/300/200 OD	30 days	BUN test on next visit

Figure 40: The treatment record page

Tab 9: Tuberculosis registration information – Clients registered for HIV care and treatment automatically get all tuberculosis registration forms and management added to their care card. If a client in HIV care was suspected or diagnosed with TB, fill out the form in the Tuberculosis Registration Information tab. This form is a one-time updateable form.

Tab 10: Previous TB symptom checklist – This holds a table containing information from the TB symptomatic check form.

Tab 11: TB Diagnosis & Category – This tab holds a form that collects TB diagnosis, diagnostic criteria, and category information. It is a one-time updateable form that allows for changes in the future with new information or re-registration.

Tab 12: TB Drug Resistance testing – The drug resistance testing form collects information about the drug resistance test and its results. Use the add row button to create new rows to enter more than one resistance result. The table to the form's right holds all the recorded drug resistance test histories.

Tab 13: Treatment monitoring – this holds a form that records information on the lab evaluation requested as part of treatment/treatment monitoring. The table to the right of the form is a table that holds all previously recorded treatment monitoring information.

Tab 14: TB adverse effect & effect management – This tab holds two forms. The first form is the adverse effect evaluation form. It contains options of possible adverse effects. Select the

Tab 15: TB treatment outcome – At the end of TB treatment for a client, use the form in this tab to record the treatment outcome.

Tuberculosis registration information, TB Diagnosis & Category, TB Drug Resistance testing, Treatment monitoring, TB adverse effect & effect management, and TB treatment outcome tabs hold Tuberculosis care and management forms. Do not fill out those forms if the client is not diagnosed with Tuberculosis.

Tab 16: Hepatitis Registration – Clients registered for HIV Care and Treatment automatically get all Hepatitis and Other STDs forms added to their care card. For clients diagnosed with Hepatitis, fill out the Hepatitis registration form.

Tab 17: Hepatitis Diagnosis, Diagnostic data & Category – This tab holds a form for selecting the symptoms, clinical diagnosis, diagnosis category, evaluation, and diagnosis of cirrhosis and hepatocellular carcinoma.

Tab 18: Hepatitis Risk Factors & Reason for test – This tab holds a form for selecting the client's risk factors and why they got tested.

Tab 19: Chancroid, Chlamydia, Gonorrhea, Herpes, Syphilis (all stages), PID – This tab holds a form for registering other STDs. Fill out the registration form for clients with syphilis, chlamydia, gonorrhea, or other STDs.

Note that the treatment form should record treatments for all conditions. An HIV registered Adult / Adolescent client does not need the TB and Other referral and registration except if the TB clinic and the other STD clinic are different from the HIV clinic. In that case, they should be referred for each type of referral and registered into that care to get a dedicated care card for TB and Others.

2. **The Pediatric care card:** the system present the forms based on the category of the client. If the client category is not the desired category for the appropriate form generation. Like the Adult care card, all TB care cards forms auto-generate in the

pediatric and exposed infant HIV Care card. Except if the pediatric or exposed client is HIV negative with TB infection, or the management clinic differs for TB and HIV, it is not necessary to do a TB referral.

Tab 1: Vital Signs and Statistics – This tab holds a form for recording vital signs and statistics and an exportable table holding all previously recorded values.

Tab 2: Pediatric Symptom Review-This tab holds a form that collects the client's symptoms and duration, the developmental assessment, physical examination by organ systems, findings, and plan.

Tab 3: TB symptom checklist - This encounter form holds questions that classify the client as a TB suspect or not suspect and records information about follow-up screenings, treatment, and prophylaxis. After saving the entries, the form clears for a new entry. The previous TB symptom checklist tab holds the previously saved entries. Once saved, an edit is not possible. For missing information or change in information, fill out the form again.

Tab 4: Pediatric ART Care card – This tab holds a form that records the client's nutrition and developmental status at each visit. It also collects information on opportunistic infections, ARV regimen, the reason for change or stop of ARV if applicable, and hemoglobin and ALT values.

Tab 5: Cd4 /Viral load – This tab holds a form to record the most recent CD4/Viral load values if not already recorded.

Tab 6: Pediatric Clinical Staging – This holds a form that lists various symptoms categorized in stages. Select all of the client's symptoms to stage the client.

Tab 7: HIV Adverse Drug Reaction – This holds a form to select the adverse drug reactions experienced by clients on ART.

Tab 8: Treatment – Take a look at figure 36. The treatment form has three sections. The top holds a table of drug pick-up history from the pharmacy if recorded. Beneath the history is a form on the left for recording the prescription given to the client. Use the Add Row button to add new rows as only one drug can be entered on a row. The right side holds the history of recorded prescriptions over time regardless of dispense or pick-up.

Tab 9: Initial Evaluation Information – This tab holds the initial evaluation form filled for the client on care registration. Update the values on the form with new information, if any.

Tab 10: Immunizations - This tab holds a form for recording immunizations given to the child. The table to the right of the form holds all previously recorded immunizations.

Tab 11: Tuberculosis Registration Information – Clients registered for HIV care and treatment automatically get all tuberculosis registration forms and management added to their care card. If a client in HIV care was suspected or diagnosed with TB, fill out the form in the Tuberculosis Registration Information tab. This form is a one-time updateable form.

Tab 12: Previous TB symptom checklist – This holds a table containing information from the TB symptomatic check form.

Tab 13: TB Diagnosis & Category – This tab holds a form that collects TB diagnosis, diagnostic criteria, and category information. It is a one-time updateable form that allows for changes in the future with new information or re-registration.

Tab 14: TB Drug Resistance testing – The drug resistance testing form collects information about the drug resistance test and its results. Use the add row button to create new rows to enter more than one resistance result. The table to the form's right holds all the recorded drug resistance test histories.

Tab 15: Treatment monitoring – this holds a form that records information on the lab evaluation requested as part of treatment/treatment monitoring. The table to the right of the form is a table that holds all previously recorded treatment monitoring information.

Tab 16: TB adverse effect & effect management – This tab holds two forms. The first form is the adverse effect evaluation form. It contains options of possible adverse effects. Select the

Tab 17: TB treatment outcome – At the end of TB treatment for a client, use the form in this tab to record the treatment outcome.

MILDRED

*Let your data tell the story.
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Vital Signs And Statistics

Temperature(°C)	Temperature(°F)	Blood Pressure	Pulse	Respiratory Rate
37	98.6	120/90	88	18
Weight(lbs)	Weight(Kgs)	Height(cm)	Height(m)	BMI
7	3.2	50	0.5	12.8

Pediatric Only

Head Circumference	Chest Circumference	Mid - Upper Arm Circumference
33(cm)	34(cm)	11.5(cm)

Vital Signs & Statistics

Pediatric Symptom Review

TB Symptom Checklist

Pediatric ART Care Card

Cd4 / Viral Load

Pediatric Clinical Staging

HIV Adverse Drug Reaction

Treatment

Initial Evaluation Information

Immunizations

Tuberculosis Registration Information

Previous TB Symptom Check

TB Diagnosis & Category

TB Drug Resistance testing

Treatment Monitoring

TB Adverse Effect & Effect Management

TB Treatment Outcome

Temperature

Blood Pressure

Pulse

Respiratory Rate

°C

☐convert to Fahrenheit

°F

☐convert to °C

Weight

Height/Length

BMI

lbs

☐convert to Kgs

cm

☐convert to m

Kgs

☐convert to lbs

m

☐convert to cm

For Pediatric Only

Head Circumference(cm)

Chest Circumference(cm)

Mid-Upper Arm Circumference(cm)

cm

cm

cm

Send

Vital Signs History

Copy

CSV

Excel

PDF

Print

Search:

S/N	Temp	B.P	Pulse	R.R	Weight	Height	BMI	HC/CC/MUAC
1	37°C/98.6F	120/90	88	18	7lbs / 3.2Kgs	50cm / 0.5m	12.8	33-34-11.5
2	36.4°C/97.5F	110/70	80	20	150lbs / 68.2Kgs	170cm / 1.7m	23.6	--
3	37.8°C/100F	120/80	100	26	20lbs / 9.1Kgs	75cm / 0.75m	16.2	40-52-8

S/N

Temp

B.P

Pulse

R.R

Weight

Height

BMI

HC/CC/MUAC (cm)

Showing 1 to 3 of 3 entries

Previous

1

Next

Figure 41: Pediatric HIV care card

The HIV exposed infant care card: The care card for the exposed infant is similar to that of the pediatric except for the addition of the exposed infant screenings Tab. The exposed infant screening tab holds the form for recording up to four HIV screenings. It collects the age at the screening, the screening date, the type (PCR/Antibody), and the test result. This form is the same used in the Initial evaluation. If filled during the initial evaluation, the previous record remains on the form in updatable format.

5.2.2.8.3 T.B. CARE CARD

Enter the unique I.D. of a client registered for Tuberculosis care management. There is one general care card for tuberculosis management. At the top of the page are flags of the Cd4 and Viral load values. Beneath the flag is a link to order or update screenings. Click on the link and follow the directions at 5.2.2.5.1. The care card holds several forms in tabs

Tab 1: Vital Signs and Statistics – This tab holds a form for recording vital signs and statistics and an exportable table holding all previously recorded values.

Tab 2: Registration Information – Clients registered for HIV care and treatment automatically get all tuberculosis registration forms and management added to their care card. If a client in HIV care was suspected or diagnosed with TB, fill out the form in the Tuberculosis Registration Information tab. This form is a one-time updateable form.

Tab 3: symptomatic checklist - This encounter form holds questions that classify the client as a TB suspect or not suspect and records information about follow-up screenings, treatment, and prophylaxis. After saving the entries, the form

clears for a new entry. The previous TB symptom checklist tab holds the previously saved entries. Once saved, an edit is not possible. For missing information or change in information, fill out the form again.

Tab 4: Previous symptom check– This holds a table containing information from the TB symptomatic check form.

Tab 5: Diagnosis & Category – This tab holds a form that collects TB diagnosis, diagnostic criteria, and category information. It is a one-time updateable form that allows for changes in the future with new information or re-registration.

Tab 6: Drug Resistance testing – The drug resistance testing form collects information about the drug resistance test and its results. Use the add row button to create new rows to enter more than one resistance result. The table to the form's right holds all the recorded drug resistance test histories.

Tab 7: Treatment – Take a look at figure 36. The treatment form has three sections. The top holds a table of drug pick-up history from the pharmacy if recorded. Beneath the history is a form on the left for recording the prescription given to the client. Use the Add Row button to add new rows as only one drug can be entered on a row. The right side holds the history of recorded prescriptions over time regardless of dispense or pick-up.

Tab 8: Treatment monitoring – this holds a form that records information on the lab evaluation requested as part of treatment/treatment monitoring. The table to the right of the form is a table that holds all previously recorded treatment monitoring information.

Tab 9: TB adverse effect & effect management – This tab holds two forms. The first form is the adverse effect evaluation form, containing options for possible adverse effects. Select the applicable option and save. The second form contains options for the management of the selected adverse effect. Select the management applied and save.

Tab 10: TB treatment outcome – At the end of TB treatment for a client, use the form in this tab to record the treatment outcome.



Get Records for a registered client (TB Care & Treatment)

Enter a registered Client's

Get Care Card

Client was also screened for HIV

There is no record of Syphilis screening for this client

Tuberculosis Care Card

To view client's Screening result or record new screenings, click [Here](#)

Tuberculosis care card for 0001234

Vital Signs & StatisticsRegistration InformationSymptomatic ChecklistPrevious Symptom CheckDiagnosis & CategoryDrug Resistance testingTreatmentTreatment Monitoring

Adverse Effect & Effect ManagementTB Treatment Outcome

Temperature

°C

☐convert to Fahrenheit

°F

☐convert to °C

Weight

lbs

☐convert to Kgs

Kgs

Blood Pressure

Blood Pressure

mmHg

Height/Length

cm

☐convert to m

m

Pulse

Pulse

BMI

Respiratory Rate

Respiratory Rate

Vital Signs History

CopyCSVExcelPDFPrint

Search:

S/N	Temp	B.P	Pulse	R.R	Weight	Height	BMI	HC/CC/MUAC
No data available in table								
S/N	Temp	B.P	Pulse	R.R	Weight	Height	BMI	HC/CC/MUAC (cm)

Showing 0 to 0 of 0 entries

Previous

Next

Figure 42: The tuberculosis management care card

5.2.2.8.4 OTHER CARE CARD

Enter the unique I.D. of a registered client. There are two types of care cards.

1. **The Adult / Adolescent / Pediatric client care card:** At the top of the page are flags of the Cd4 and Viral load values. Beneath the flag is a link to order or update screenings. Click on the link and follow the directions at 5.2.2.5.1. The care card holds several forms in tabs

Tab 1: Hepatitis Registration – For clients diagnosed with Hepatitis, fill out the Hepatitis registration form.

Tab 2: Hepatitis Diagnosis, Diagnostic Data, and Category – This tab holds a form for selecting the symptoms, clinical diagnosis, diagnosis category, evaluation, and diagnosis of cirrhosis and hepatocellular carcinoma.

Tab 3: Hepatitis risk factors & reason for test – This tab holds a form for selecting the client's risk factors and why they got tested.

Tab 4: Chancroid, chlamydia, Gonorrhea, Herpes, Syphilis (all stages), PID – This tab holds a form for registering other STDs. Fill out the registration form for clients with syphilis, chlamydia, gonorrhea, or other STDs.

Tab 5: Treatment – Take a look at figure 36. The treatment form has three sections. The top holds a table of drug pick-up history from the pharmacy if recorded. Beneath the history is a form on the left for recording the prescription given to the client. Use the Add Row button to add new rows as only one drug can be entered on a row. The right side holds the history of recorded prescriptions over time regardless of dispense or pick-up.

Tab 6: Treatment monitoring – this holds a form that records information on the lab evaluation requested as part of treatment/treatment monitoring. The table to the right of the form is a table that holds all previously recorded treatment monitoring information.

Tab 7: Vital Signs and Statistics - This tab holds a form for recording vital signs and statistics and an exportable table holding all previously recorded values.

2. **The Exposed Infant Care Card:** At the top of the page are flags of the Cd4 and Viral load values. Beneath the flag is a link to order or update screenings. Click on the link and follow the directions at 5.2.2.5.1. The care card holds several forms in tabs

Tab 1: Vital Signs and Statistics – This tab holds a form for recording vital signs and statistics and an exportable table holding all previously recorded values.

Tab 2: Perinatal Hepatitis Case report – This tab holds a form that collects information about the mother's pregnancy. Prenatal ANC visits and antiviral treatments during pregnancy. This form should be filled out for all clients with Hepatitis infection during pregnancy regardless of the treatment outcome.

Tab 3: Perinatal Hepatitis Clinical and Diagnostic Data – This tab holds a form that collects information on the mother's hepatitis diagnostic screenings and the child's hepatitis diagnostic screenings, the infant's reason for test, symptoms, and onset of symptoms, liver enzymes at diagnosis, infant's hepatitis B vaccination history, Infant's Hepatitis outcome.

Tab 4: Congenital Syphilis Case Report – This tab holds a form that collects information about the mother’s pregnancy, prenatal ANC visits, syphilis screenings, and treatment during pregnancy. This form is for all clients with a treponemal infection regardless of the treatment outcome.


Tab 5: Congenital Syphilis Clinical & Diagnostic Data – This tab holds a form that collects information about the infant, symptoms, treatment, and outcome.

Tab 6: Treatment – Take a look at figure 36. The treatment form has three sections. The top holds a table of drug pick-up history from the pharmacy if recorded. Beneath the history is a form on the left for recording the prescription given to the client. Use the Add Row button to add new rows as only one drug can be entered on a row. The right side holds the history of recorded prescriptions over time regardless of dispense or pick-up.

Tab 7: Treatment monitoring – this holds a form that records information on the lab evaluation requested as part of treatment/treatment monitoring. The table to the right of the form is a table that holds all previously recorded treatment monitoring information.

Tab 8: Symptom Review – This tab holds a form that collects the client’s symptoms and duration, the developmental assessment, physical examination by organ systems, findings, and plan.

Tab 9: Immunizations - This tab holds a form for recording immunizations given to the child. The table to the right of the form holds all previously recorded immunizations.



Organisation of
Eastern Caribbean
States

Case Based Surveillance System

Get Records for a registered client

Get Care Card

Client was also screened for HIV

Client was also screened for Syphilis.

Care Card - Prevention / Other STIs : (Adult, Adolescent & Pediatric)

To view client's Screening result or record new screenings, click [Here](#)

Care card for Prevention, Viral Hepatitis and other STDs for svg500

Hepatitis Registration	Hepatitis Diagnosis, Diagnostic Data & Category	Hepatitis Risk Factors & Reason for Test	Chancroid, Chlamydia, Gonorrhea, Herpes, Syphilis(all Stages), PID	Treatment
Treatment Monitoring	Vital Signs & Statistics			

Adult / Adolescent Hepatitis Registration

Registration Date

02/15/2022

Pregnant?(Females only)

Figure 43:Adult, adolescent, and pediatric Prevention and Other STIs Care Card



Case Based Surveillance System

Get Records for a registered client

Enter a registered Client's

Get Care Card

Exposed Infant Care Card - Prevention / Other STIs

Demographic Information		
Unique ID	Sex	Date of Birth
sup22f	female	02/02/2022

There is no record of HIV screening for this client

There is no record of Syphilis screening for this client

To view client's Screening result or record new screenings, click [Here](#)

Care card for Prevention, Viral Hepatitis and other STDs for sup22f

Vital Signs & Statistics

Perinatal Hepatitis Case Report

Perinatal Hepatitis Clinical & Diagnostic Data

Congenital Syphilis Case Report

Congenital Syphilis Clinical & Diagnostic Data

Treatment

Treatment Monitoring

Symptom Review

Immunizations

Temperature

Blood Pressure

Pulse

Respiratory Rate

Vital Signs History

Figure 44: Exposed Infant Syphilis, Hepatitis and prevention care card

5.2.2.8.5 PREVIOUS ENCOUNTER

Enter the client's unique I.D. of the client who has had a clinical management encounter in the form. The file displayed depends on the category of the client.

1. **Adult / Adolescent:** The previously recorded review of symptoms, CD4/viral load values, clinical staging, and mental health assessment response populates in their respective tabs in containers tagged by the timestamp of record entry with the most recent first.
2. **Pediatric /Exposed:** The previously recorded review of symptoms, ART care card, CD4/viral load values, and clinical staging populate in their respective tabs in containers tagged by the timestamp of record entry with the most recent first.

Note that an empty tab means that forms with no previous encounter.

5.2.2.9 CENTRAL MEDICAL STORE & SUPPLIES

A user granted the central_medical_unit permission has access to the **CENTRAL MEDICAL STORES & SUPPLIES** sub-menu of the pages menu. Expand this link to reveal a list of links to its functionalities

5.2.2.9.1 LIST OF REGISTERED PHARMACIES DISPENSING ARVS

This page holds an exportable list of all the pharmacies registered during the system configuration. Medication distribution is only possible for pharmacies that appear on this list. Ask the administrator to add the pharmacy to the list if omitted.

5.2.2.9.2 CREATE MEDICATION STOCK

This page holds a form for the creation of medications in stock at the Central Medical Stores. The medication stock entry comes first before carrying out additional functions of the central medical store is possible. Fill the form with the name of the medication, the form, strength, manufacturer, expiry date, batch number, quantity, packaging, and amount per pack. Save and wait for a success message. The form clears for the next entry. Repeat the process to enter each medication.

5.2.2.9.3 STOCKLIST

This page holds an exportable table of the stock created in the previous step.

5.2.2.9.4 EDIT/RECALL STOCK

If a stock entry has an error or was recalled, use this form to edit/delete/recall the stock. Correct the fields with the error and click on the green Edit button for edits. In the case of delete or recall, select the reason for recall and click on the red recall button.

5.2.2.9.5 VIEW RECALLED

This page holds an exportable table of all deleted or recalled stock entries.

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5.2.2.9.6 RECORD DISTRIBUTION

This page holds a form to record the distribution of drugs to pharmacies. Look for the row with the drug name, fill in the pharmacy, quantity supplied, and received by fields, and then click on the distribute button. This process subtracts the quantity supplied from the quantity in stock. Repeat the same process to record all distributions of all medications to all pharmacies.

5.2.2.9.7 VIEW DISTRIBUTION

This page holds a searchable table of all recorded distributions and a delete button to reverse the distributions if recorded in error.

5.2.2.10 PHARMACY

A user granted the pharmacy permission has access to the **PHARMACY** sub-menu of the page's menu. Expand this link to reveal a list of links to its functionalities

5.2.2.10.1 CREATE STOCK

This page holds a form for the creation of medications received and in stock at the Pharmacy. The medication stock entry comes first before carrying out additional functions of the pharmacy is possible. Fill the form with the name of the medication, the form, strength, manufacturer, expiry date, batch number, quantity, packaging, and amount per pack. Save and wait for a success message. The form clears for the next entry. Repeat the process to enter each medication.

5.2.2.10.2 VIEW STOCK

This page holds flags about the medications in stock at both the pharmacy and the central medical stores. The flags hold information about the medication running low in stock, the medications that are out of stock, and the medications that have expired or are about to expire at the pharmacy and the central medical stores. Beneath the flags is a form. If a stock entry has an error or was recalled, use this form to edit/delete/recall the stock. Correct the fields with the error and click on the green Edit button for edits. In the case of delete or recall, select the reason for recall and click on the red recall button.

5.2.2.10.3 VIEW RECALLED

This page holds an exportable table of all deleted or recalled stock entries.

5.2.2.10.4 DISPENSE

This page contains a form to record the dispense of a prescription. Complete the form again for each drug on the prescription, taking note of the prescription number for label printing.

5.2.2.10.5 PRINT LABEL

Enter the client's unique ID and prescription number to print the label and directions for a filled prescription.

5.2.2.10.6 VIEW ALL TRANSACTION HISTORY.

This page holds an exportable and searchable table of all recorded drug dispense.

5.2.2.10.7 VIEW THE CLIENT'S TREATMENT PLAN

Enter the client's unique I.D. for the symptom review and treatment plan.

5.2.2.10.8 VIEW CLIENT'S RX HISTORY: FOR HIV-POSITIVE CLIENTS IN CARE

Enter the unique I.D. of the client to get an exportable/searchable table of all drug dispense history for the client.

5.3 THE MONITORING AND REPORTING ROLE

The system's monitoring and reporting role controls all auto-reporting functionalities. Four permission groups control this role's functions.

5.3.1 THE MONITORING AND REPORTING ROLE PERMISSIONS

1. ***screenings_report***: controls access to all auto-generated screenings and positivity reports for all screenings recorded on the system.
2. ***cases_report***: controls access to all care referrals, care registration, reports, and summaries.
3. ***anc_report***: controls access to EMTCT and other antenatal reports
4. ***pharmacy_report***: controls access to pharmacy reports.

5.3.2 THE MONITORING AND REPORTING ROLE FUNCTIONALITIES

5.3.2.1 SCREENINGS, PREVENTION, AND CONTROL REPORT:

All users assigned the screenings_report permission can access the "Screenings, Prevention and Control Report" sub-menu on expanding the page's menu. This sub-menu holds the following auto-generated reports:

1. **Registered clients report** This links to a page that gives the auto-calculated total of the client's account created on the system disaggregated by the sex, gender identity, and month of account creation. All calculations are done regardless of the clients' screenings and results.
2. **HIV screenings and positivity report:** This links to a page that gives the auto-calculated total of the client's HIV screenings disaggregated by sex, age group, testing modality, test results, ethnicity, the month of screening, and 10-year trend in screenings and positivity.
3. **Syphilis screenings and positivity report:** This links to a page that gives the auto-calculated total of the client's Syphilis screenings disaggregated by sex, age group, test results, ethnicity, and the month of screening, and 10-year trend in screenings and positivity.
4. **Tuberculosis screenings and positivity report:** This links to a page that gives the auto-calculated total of the client's Tuberculosis screenings disaggregated by sex, age group, test results, ethnicity, the month of screening, and 10-year trend in screenings and positivity.

5. Behavioral Report / Prevention / OECS Commission M & E Summary Report: This links to a page that auto-calculates the total of the client's HIV screenings disaggregated by risk behaviors, sexuality, and positivity. It also holds the prevention service summary report and the OECS M&E summary with the following reports generated:

5.3.2.2 COMMITMENT TO THE 90-90-90 TARGET

All users assigned the cases_report permission can access the "Commitment to the 90-90-90 Target" sub-menu on expanding the page's menu. This sub-menu holds the following auto-generated reports:

1. People living with HIV: This links to a page that give an auto-calculated total of :

a. The total number of HIV screenings

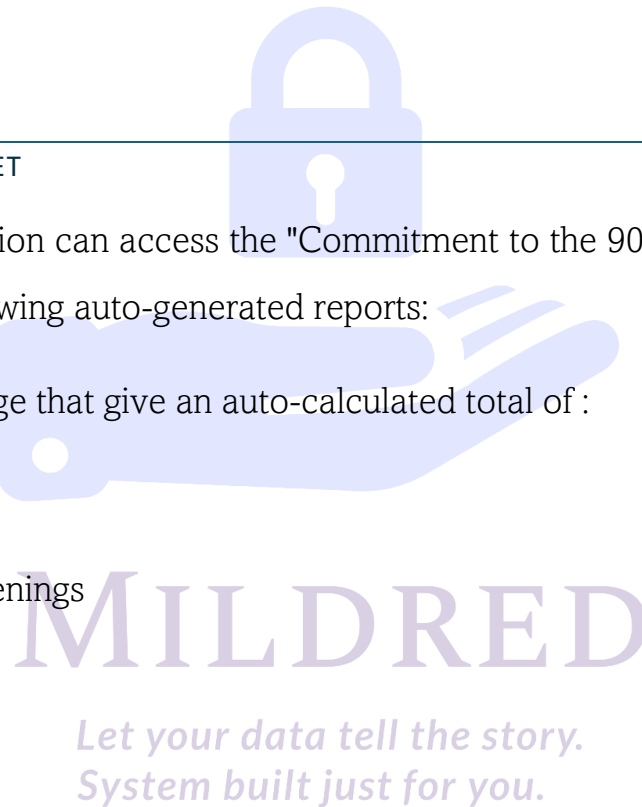
b. The total number of Exposed infant Screenings

c. Total ANC HIV positives

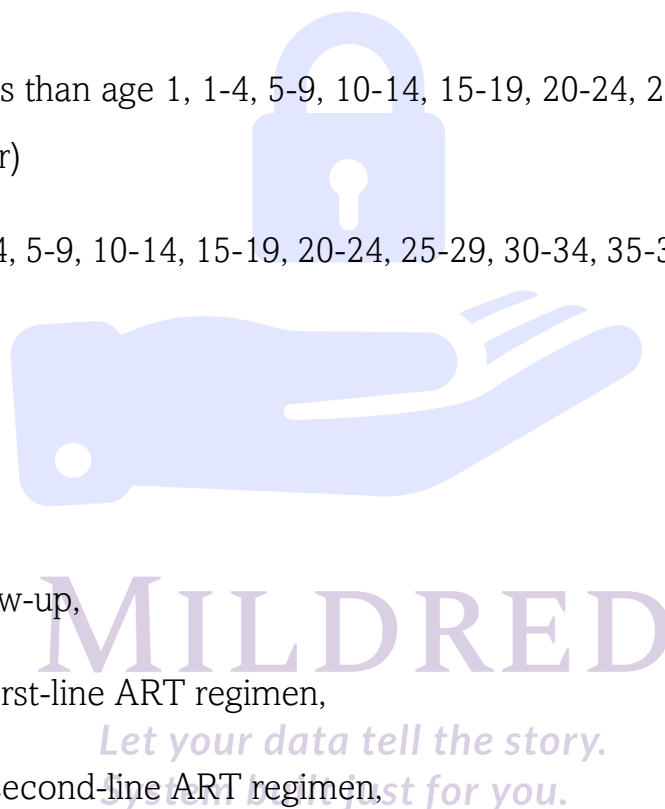
d. Total Exposed infants positive

e. Total other clients positive

f. The ratio of positivity (General, ANC, Exposed)



- g. Care referrals of pregnant, exposed, pediatric, adult, adolescent
- h. Clients on first-line ART regimen (less than age 1, 1-4, 5-9, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64, 65-69, 70-74, 75-59, 80 and over),
- i. Clients on second-line ART regimen (less than age 1, 1-4, 5-9, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64, 65-69, 70-74, 75-59, 80 and over)
- j. Clients dead on ART (less than age 1, 1-4, 5-9, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64, 65-69, 70-74, 75-59, 80 and over)
- k. Clients lost to follow-up on first-line,
- l. Clients lost to follow-up on second-line,
- m. The total number of clients lost to follow-up,
- n. number of children less than age 15 on first-line ART regimen,
- o. the number of children less than 15 on second-line ART regimen,
- p. number of adults 15+ on first-line ART regimen,
- q. the number of adults 15+ on second-line ART regimen,



- r. The total number of clients on ART,
- s. The total number of clients on ART who died,
- t. Pediatric switch of ART from first_line to second-line,
- u. Adult switch from first-line to second-line.

5.3.2.3 ANTENATAL REPORTING

Expanding the page's menu allows all users assigned the anc_report permission to access the "Antenatal Reporting" sub-menu. This sub-menu holds the following links to reports

1. EMTCT Report: This holds auto-generated reports on
 - a. Perinatal Syphilis case report: This is an exportable table with information on:

Mother's non-treponemal test details

Mother's treponemal test details

Mother's treatment and treatment outcome

Date of birth of the child

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Child's screenings and titer values

Child's treatment details

Comments

b. Perinatal Hepatitis case Report

Child's date of birth

Date and Trimester of mother's first prenatal visit

Treatment mother received and date

Mother's Hepatitis Diagnosis date and Trimester

Mother's HBsAg result and date

Child's HBsAg result and date

Child's symptoms

Child's diagnosis and date

Child's Hep B vaccination



c. HIV Exposed Infant Report

Child's date of birth

Sex

Date of final HIV diagnosis

Mode of transmission

Date of Viral load test and value

Treatment

2. Incidence of perinatal HIV/Syphilis/Hepatitis (per 1000 live births)

Mother-to-child transmission rate

HIV incidence amongst exposed infants

Syphilis incidence amongst exposed

Hepatitis incidence amongst exposed infants



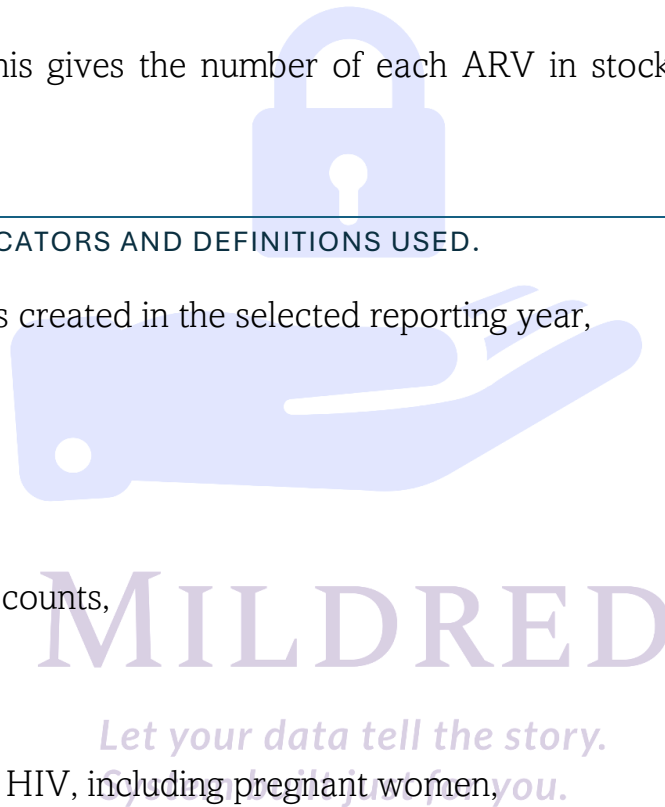
5.3.2.5 PHARMACY REPORT

Expanding the page's menu allows all users assigned the pharmacy_report permission to access the "Pharmacy Report" sub-menu. This sub-menu holds the following links to reports

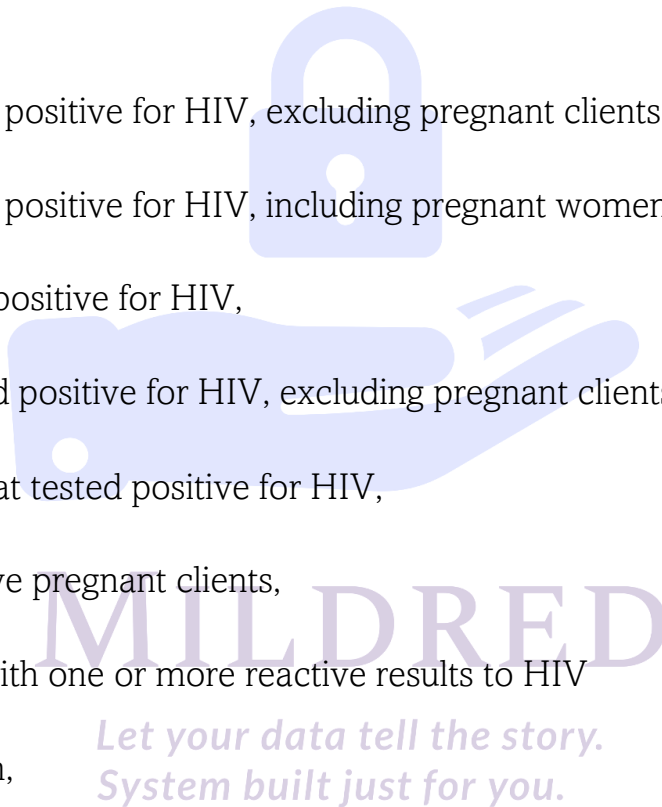
1. OECS summary sheet – pharmacy: This gives the number of each ARV in stock and stock-out and the number of clients dispensed by each drug by sex.

5.3.2.6 AUTO-GENERATED REPORTING INDICATORS AND DEFINITIONS USED.

1. The total number of new client accounts created in the selected reporting year,
2. Sex ratio of new clients,
3. Account created by month and sex,
4. Sex versus gender identity of created accounts,
5. Exportable tables of a-d,
6. the total number of people screened for HIV, including pregnant women,
7. The total number of people screened for HIV, excluding pregnant women,
8. The total number of males screened for HIV,



9. The total number of females screened for HIV, including pregnant women,
 10. The total number of females screened for HIV, excluding pregnant women,
 11. The total number of Intersex screened,
 12. The total number of people that tested positive for HIV, excluding pregnant clients,
 13. The total number of people that tested positive for HIV, including pregnant women,
 14. The total number of males that tested positive for HIV,
 15. The total number of females that tested positive for HIV, excluding pregnant clients,
 16. The total number of Intersex clients that tested positive for HIV,
 17. Total number of HIV confirmed positive pregnant clients,
 18. The total number of pregnant clients with one or more reactive results to HIV
 19. HIV screenings per 100,000 population,
 20. HIV positives per 100,000 population,
- The total number of HIV screenings



21. The total number of Exposed infant Screenings

22. Total ANC HIV positives

23. Total number of exposed infants HIV positive

24. Total number of other clients HIV positive

25. The ratio of positivity (General, ANC, Exposed)

26. Care referrals of pregnant, exposed, pediatric, adult, adolescent

27. Clients on first-line ART regimen (less than age 1, 1-4, 5-9, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64, 65-69, 70-74, 75-59, 80 and over),

28. Clients on second-line ART regimen (less than age 1, 1-4, 5-9, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64, 65-69, 70-74, 75-59, 80 and over)

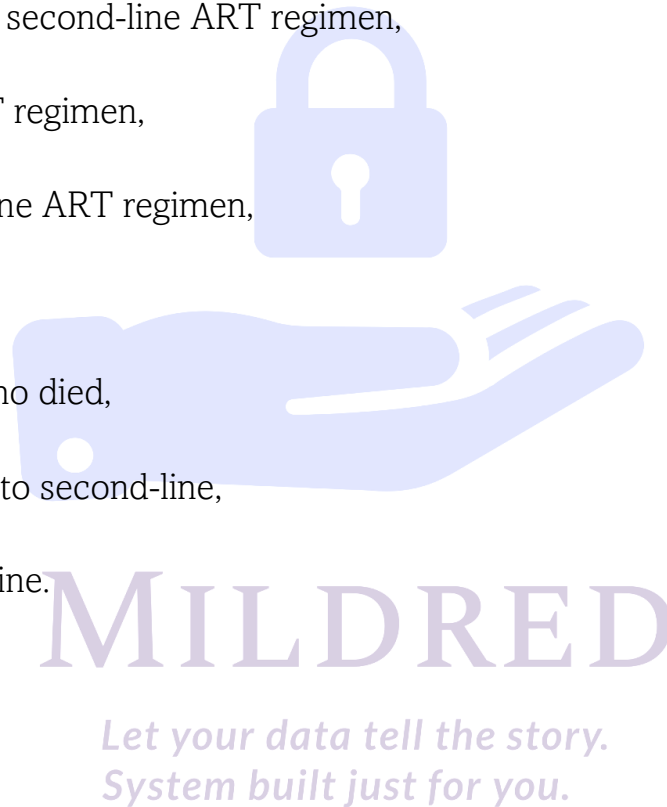
29. Clients dead on ART (less than age 1, 1-4, 5-9, 10-14, 15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, 60-64, 65-69, 70-74, 75-59, 80 and over)

30. Clients lost to follow-up on first-line,

31. Clients lost to follow-up on second-line,



- 32. The total number of clients lost to follow-up,
- 33. number of children less than age 15 on first-line ART regimen,
- 34. the number of children less than 15 on second-line ART regimen,
- 35. number of adults 15+ on first-line ART regimen,
- 36. the number of adults 15+ on second-line ART regimen,
- 37. The total number of clients on ART,
- 38. The total number of clients on ART who died,
- 39. Pediatric switch of ART from first-line to second-line,
- 40. Adult switch from first-line to second-line.



6 THE VIRTUAL TRAINING WORKSHOP PORTAL

To get to the virtual training workshop portal, click the login button beneath the Heading, as shown in the figure below.

When a user's account is created, the user is assigned one of four roles:

- **Developer:** This is the user who controls the creation and management of user accounts and the virtual training
- **Facilitator:** This user configures a training workshop session, schedule, assessment, and participant attendance.
- **Participants:** These are the attendees of a training workshop who are to be certified with an evaluation at the end.
- **Guest:** These are external attendees of a training workshop who have access to live sessions and resources but are not certifiable.

FOR ADMINISTRATORS: To get started for the first time, log in with the test user account using the test@test.com credentials. Then, create your account and assign yourself the developer role. Follow the illustration from page 5 to activate your account and log in to get started.

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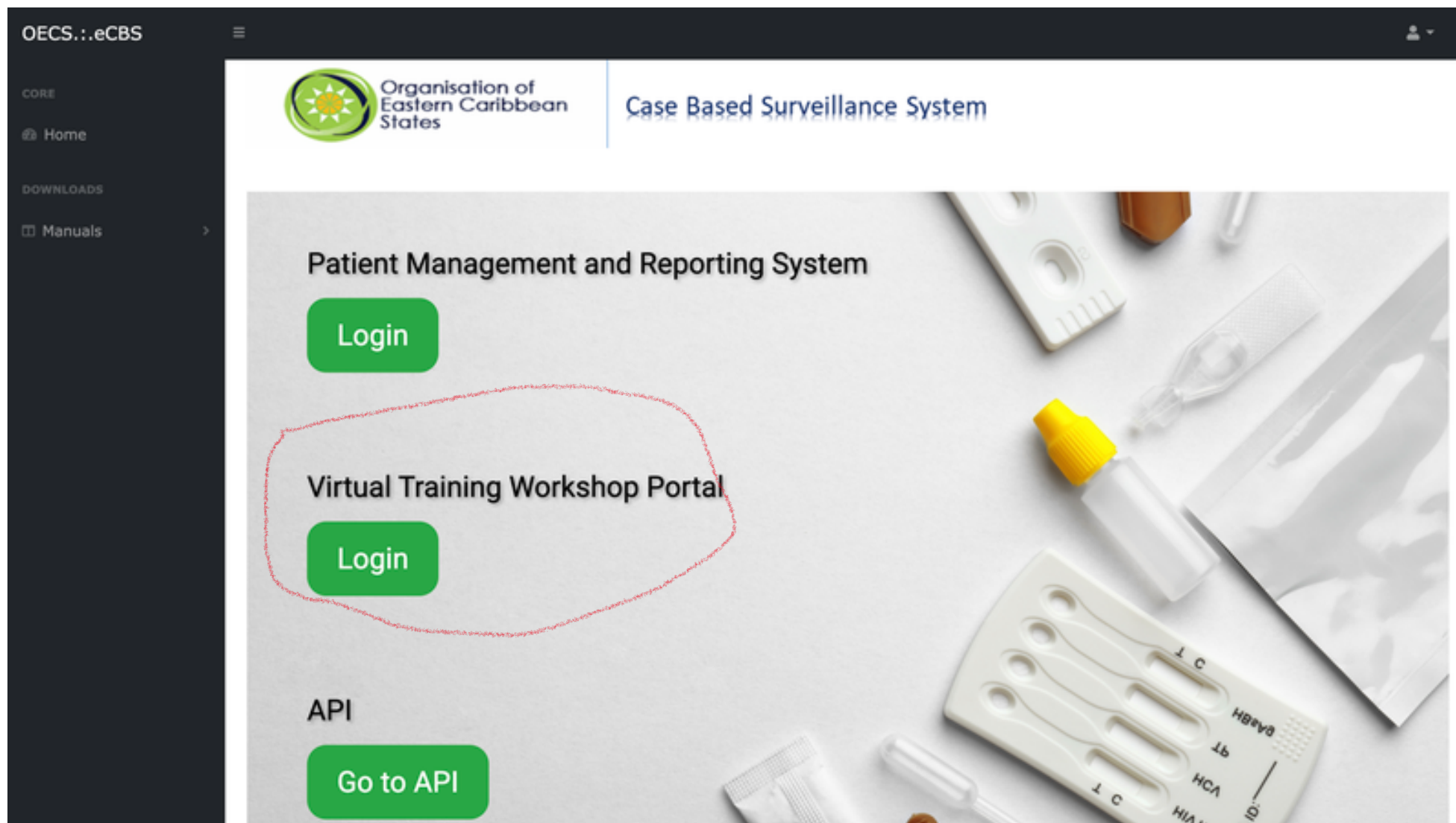


Figure 45: The home page showing the virtual training workshop portal login

6.1 THE DEVELOPER ROLE

The developer role controls two main functionalities: creating and managing training portal users' accounts, creating a training workshop, and viewing facilitators' and participants' schedules.

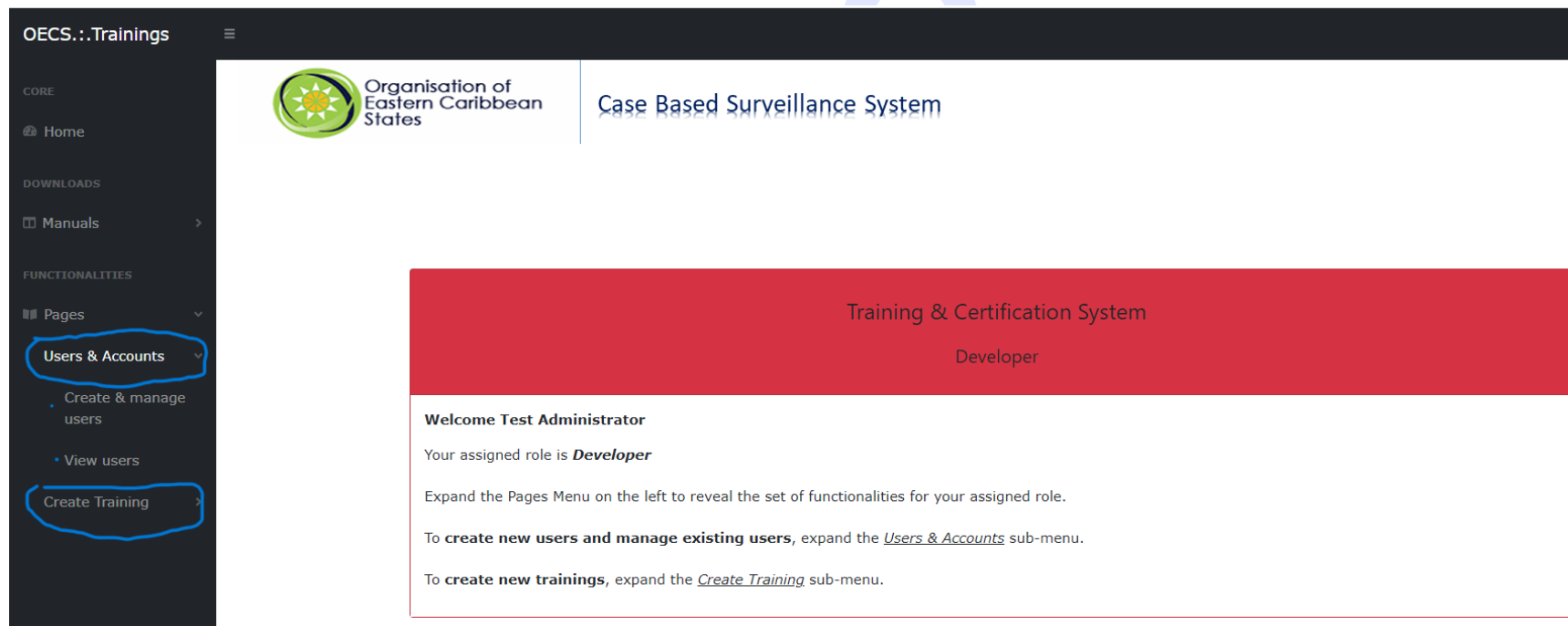


Figure 46: The developer home page shows two main functionalities. Expand the pages menu and click on the > symbol to the right of each sub-menu to reveal the links to the functionalities.

6.1.1 USERS & ACCOUNTS

Expand the pages menu to reveal the Users & Account sub-menu. This menu holds links to create and manage users' accounts.

6.1.1.1 CREATE AND MANAGE USERS

The Create and Manage Users link displays two forms in the content area for creating new user accounts and managing existing accounts.



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Case Based Surveillance System

Core

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Logged in as: Test Administrator

Create Training Portal Users

First Name

Last Name

Email

Confirm Email

Role
[Choose Role]

Create User

Edit Users

Show 10 entries

Search:

ID	First Name	Last Name	Email	Role	Status	Last Seen	Actions
1	Test	Administrator	test@test.com	Developer	Y	Monday, 11-Apr-2022 10:47:07am	

Showing 1 to 1 of 1 entries

1

Update user info.

Delete User

Figure 47: Create and manage users' account page

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A success message displayed at the top of the page indicates a successful account creation. Note the new account details added to the list of editable users. The status remains N until the new user sets their password and activates their account. All activated accounts have a status of Y.

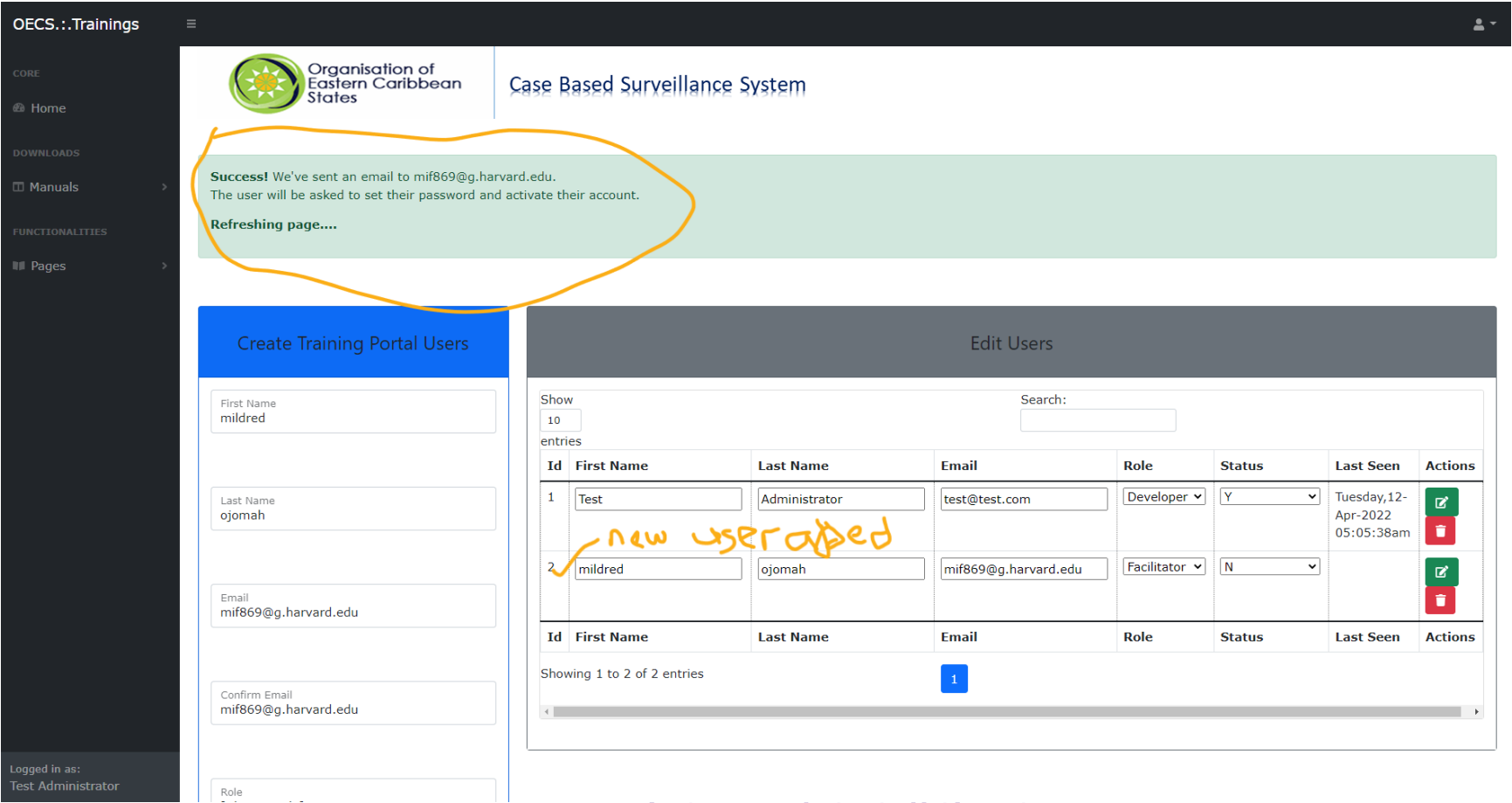


Figure 48: Image of the user account creation page showing the success message after creating an account.

6.1.1.2 VIEW USERS

This link displays an exportable and searchable table that holds all portal users' account information.



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Case Based Surveillance System

All Users

Copy CSV Excel PDF Print

Search:

S/No	First Name	Last Name	Email	Role	Activation Status
1	Test	Administrator	test@test.com	Developer	Y
2	mildred	ojomah	mif869@g.harvard.edu	Facilitator	N

Showing 1 to 2 of 2 entries

Previous 1 Next

All Training Portal Users

Figure 49: The 'view users' link displays a searchable and exportable list of all the portal users

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6.1.2 CREATE TRAINING

The "create training" sub-menu of the page's menu allows the Developer to create a training workshop, view the schedules of facilitators, and view the schedules of training participants. Only after a developer creates a training session can a facilitator configure it.

6.1.2.1 CREATE A NEW TRAINING.

The Developer creates the training before the Facilitator can configure the training. The "create a new training" link allows the Developer to create and update created training. To create the training, give the training a title, a start, and an end date. The title and dates are updateable and allow for future changes as needed. Creating a training means giving a training workshop series a title. The facilitator of that training workshop configures the different topics for the sessions for each day.

A large, light blue watermark is centered on the page. It features a padlock icon at the top, a hand holding a key in the middle, and the word "MILDRED" in a serif font at the bottom.

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Organisation of
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Case Based Surveillance System

Create a New Training

Training Title

screenings and management end user training

Start Date

05/09/2022

End Date

05/13/2022

Create





Update / Delete Training

Show

10

entries

Search:

Id	Training Title	Start Date	End Date	Actions
1	Data entry training	04/19/2022	04/26/2022	 
2	Data validation training	04/27/2022	05/04/2022	 

Showing 1 to 2 of 2 entries

1

Figure 50: Creating a new virtual training workshop

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6.1.2.2 VIEW FACILITATOR

After successfully creating training, the Facilitator configures it with the sessions and other details. The view facilitator link lets the Developer view the facilitator's training schedule.

6.1.2.3 VIEW PARTICIPANT SCHEDULE

This link allows the Developer to view the participants associated with each training session created by the Facilitator. The page holds a drop-down menu of all the training titles, and the system displays a searchable and exportable list of all the training attendees.

6.2 THE FACILITATOR ROLE

The facilitator role holds functionalities to configure a created training and add participants to the training. The Facilitator also creates news and announcements, uploads file, creates a question pool, and creates assessments. This role groups these functionalities into the *Training Sessions, Uploads & Assessment, and Certification*.

6.2.1 TRAINING SESSION AND UPLOADS

This menu contains links to create training sessions and session rooms, add attendees to training, view attendees' schedules, create training notes, upload files/videos, and create training announcements and news.

6.2.1.1 CREATE TRAINING SESSION

Select the 'Create training session' link from the drop-down menu and fill out the form on the left of the content area. Give the training session a unique name, select the training it is associated with, and select a start and end time.

Training sessions are like modules or topics of a training workshop. [For example, for a training workshop with the title "screenings and management," and the training entails teaching the participants how to create the screenings account, how to collect the required data... then you can create sessions "creating accounts," "data collection." For grouped participants with different training times, use training rooms.



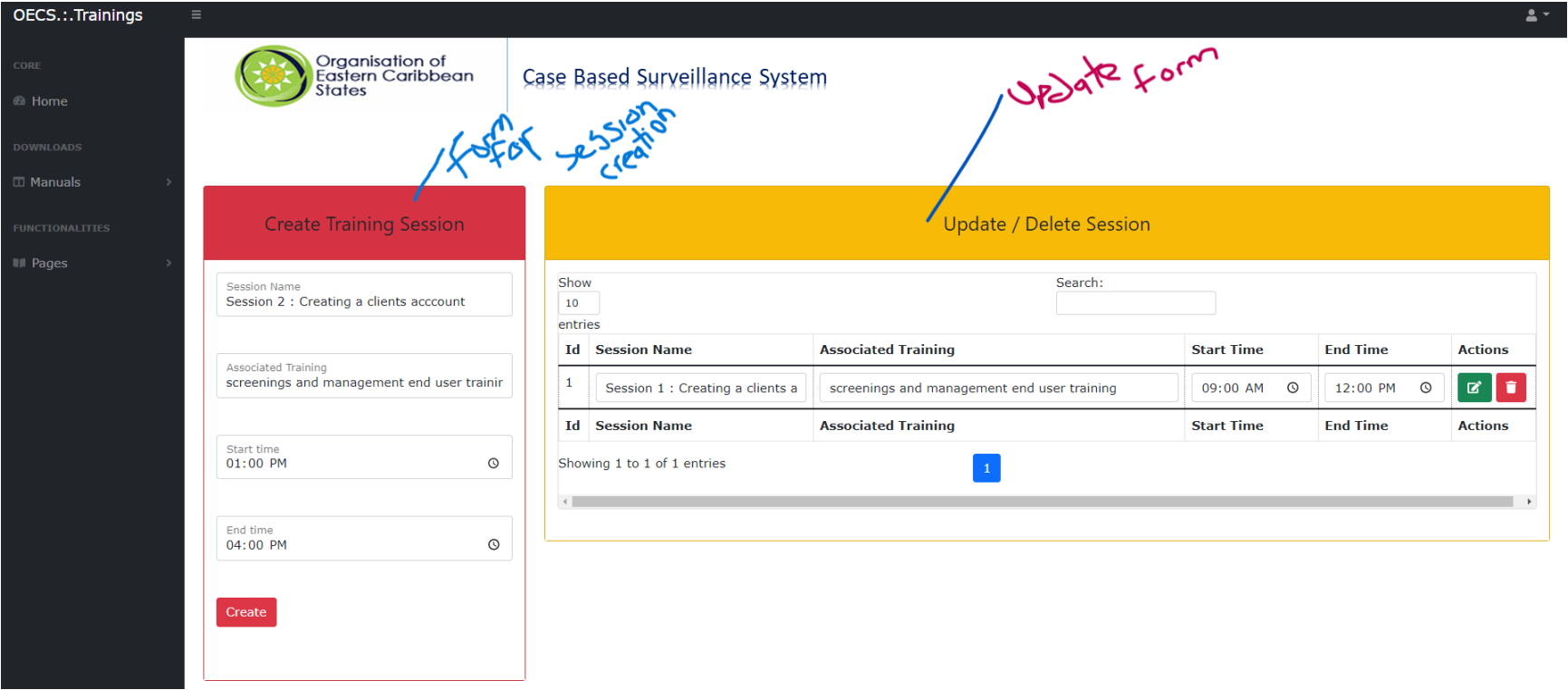


Figure 51: Creating sessions for a training workshop

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6.2.1.2 CREATE SESSION ROOMS

After creating a session, it is time to make a session room. Using a session room, you can have several grouped participants within a session. A session room holds the exact time of the live web conference and a link to join the conference. Creating and setting

the room is the strictest configuration of virtual training. It gives live access to the participants and guests of the training, creates the Facilitator's schedule, and links to start a live session. After creating a room, it appears on the 'update/delete' form. Each entry can be updated or deleted as needed. For edit, change the entry and click on the green edit symbol. This should be done a row at a time.



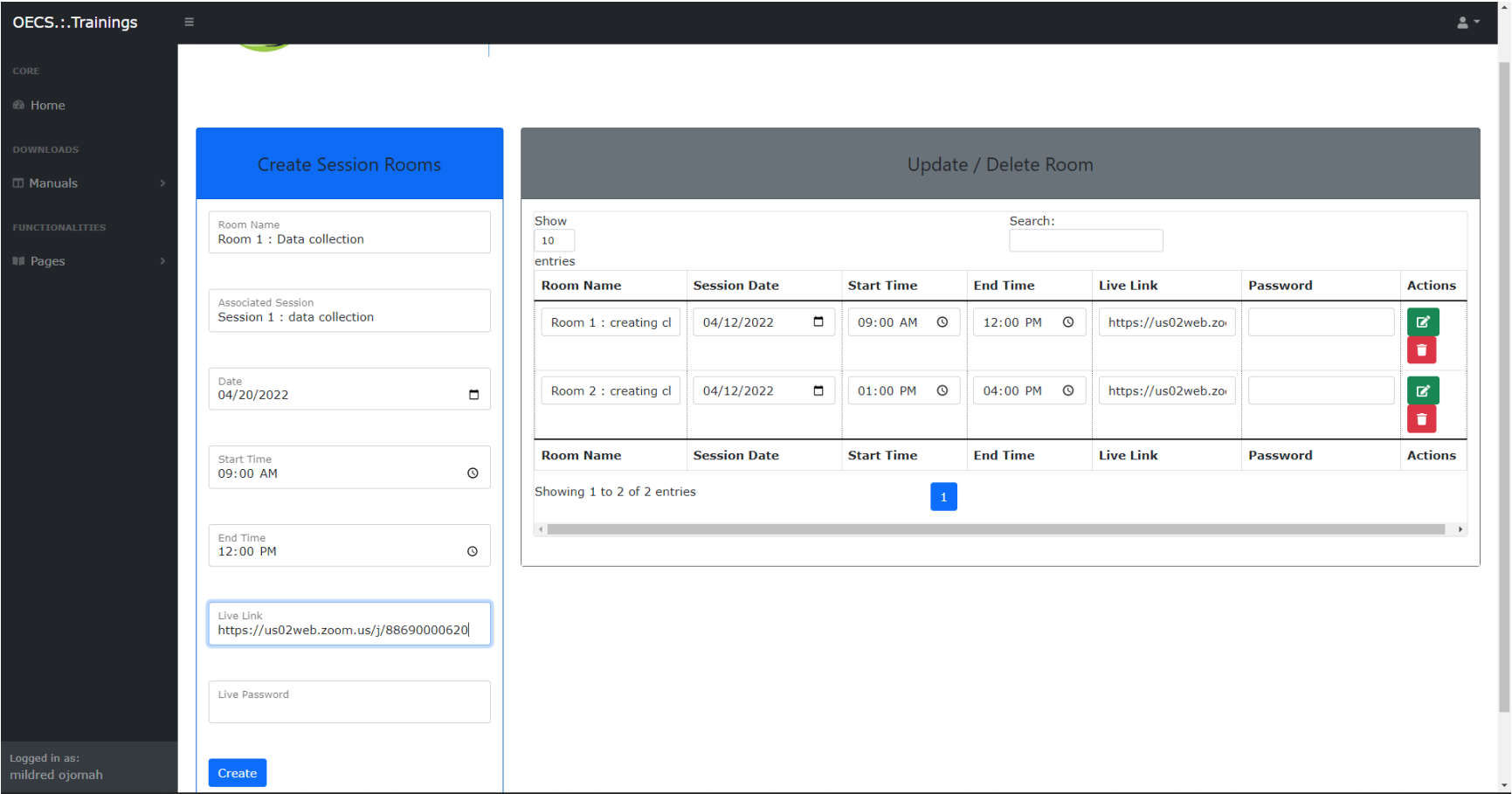


Figure 52: Creating a session room

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Room creation completes the configuration of a training workshop. The Facilitator's home page holds a table of the Facilitator's training schedule.

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Case Based Surveillance System

Training & Certification System

Facilitator

Welcome mildred ojomah

Copy CSV Excel PDF Print

Search:

Id	Session	Start Date (yyyy-mm-dd)	Start Time	End Time	Start Session	Session Password
1	Room 1 : creating clients accounts	2022-04-12	09:00	12:00	Start Session	
2	Room 2 : creating clients account	2022-04-12	13:00	16:00	Start Session	

Showing 1 to 2 of 2 entries

Previous 1 Next

Figure 53: The facilitator's home page showing the table of the facilitator's training schedules

6.2.1.3 ADD ATTENDEES TO TRAINING.

After configuring a training workshop, the next step is to add the training attendees to their training rooms.

This page has a drop-down menu for choosing a room. When the select room button is clicked, a list of participants who are not already in that room appears, with checkboxes beside their names. Click on the checkbox beside each participant's name to add them to the room.

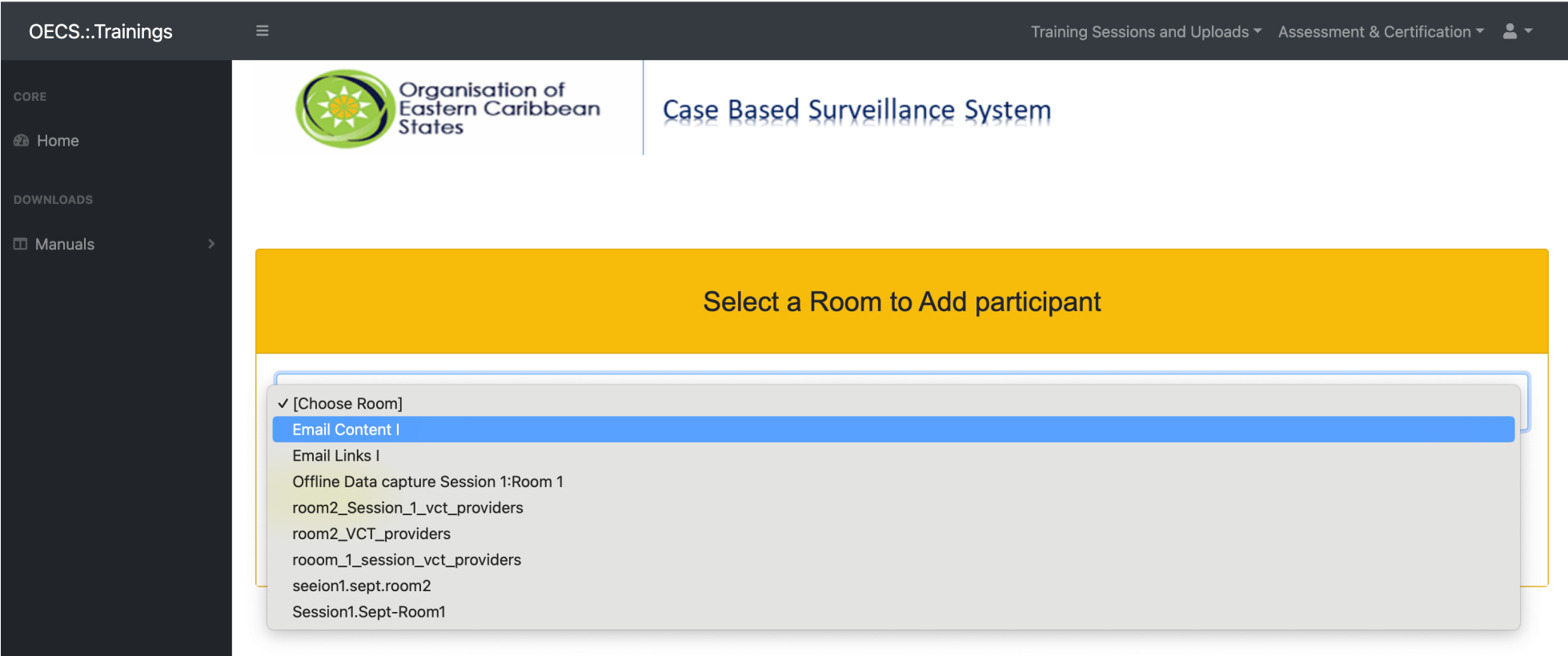


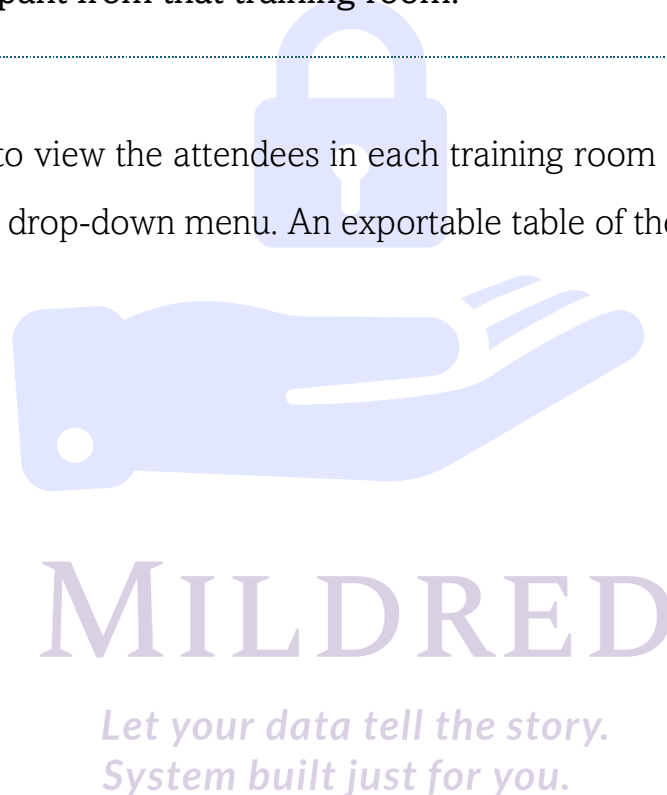
Figure 54: Image showing the page to add attendees to a training

6.2.1.4 REMOVE ATTENDEE(S) FROM TRAINING.

After adding all the attendees of a training workshop to the training, the remove attendee from training link allows you to delete an attendee from a training room if added in Error. On the page, click the red trash sign on the row with the participant's email to remove the participant from that training room.

6.2.1.5 VIEW ATTENDEES SCHEDULE

After adding all attendees to the training, to view the attendees in each training room and their schedule, use the "view attendees schedule" link. Select the training from the drop-down menu. An exportable table of the training participants is populated, if any.



The screenshot shows the OECS-eCBS Trainings interface. On the left is a dark sidebar with navigation links: CORE, Home, DOWNLOADS, Manuals, FUNCTIONALITIES, and Pages. The main content area has a header with the Organisation of Eastern Caribbean States logo and the title 'Case Based Surveillance System'. Below the header is a red box with the text 'Please select a Training'. A dropdown menu is open, showing options: '[Choose Here]', '[Choose Here]', 'Data entry training', 'Data validation training', and 'screenings and management end user training'. Below this is a blue header for 'Participants Master Schedule'. Underneath are buttons for 'Copy', 'CSV', 'Excel', 'PDF', and 'Print', followed by a search bar. A table displays the schedule for four sessions. The table has columns for Id, Session, Start Date (yyyy-mm-dd), Start Time, End Time, Participant Email, and Participant Name. The data shows two sessions in Room 1 and two in Room 2, all on 2022-04-12. The participants are 'Test Administrator' and 'mildred ojomah'. At the bottom, it says 'Showing 1 to 4 of 4 entries' with 'Previous', '1', and 'Next' buttons.

Id	Session	Start Date (yyyy-mm-dd)	Start Time	End Time	Participant Email	Participant Name
1	Room 1 : creating clients accounts	2022-04-12	09:00	12:00	test@test.com	Test Administrator
2	Room 1 : creating clients accounts	2022-04-12	09:00	12:00	mif869@g.harvard.edu	mildred ojomah
3	Room 2 : creating clients account	2022-04-12	13:00	16:00	test@test.com	Test Administrator
4	Room 2 : creating clients account	2022-04-12	13:00	16:00	mif869@g.harvard.edu	mildred ojomah

Figure 55: View attendees' schedule page

6.2.1.6 CREATE TRAINING NOTES

Use this link to create notes for a training session. Training notes are associated with a training session, and the notes are displayed on the pages of the participants of that training session.

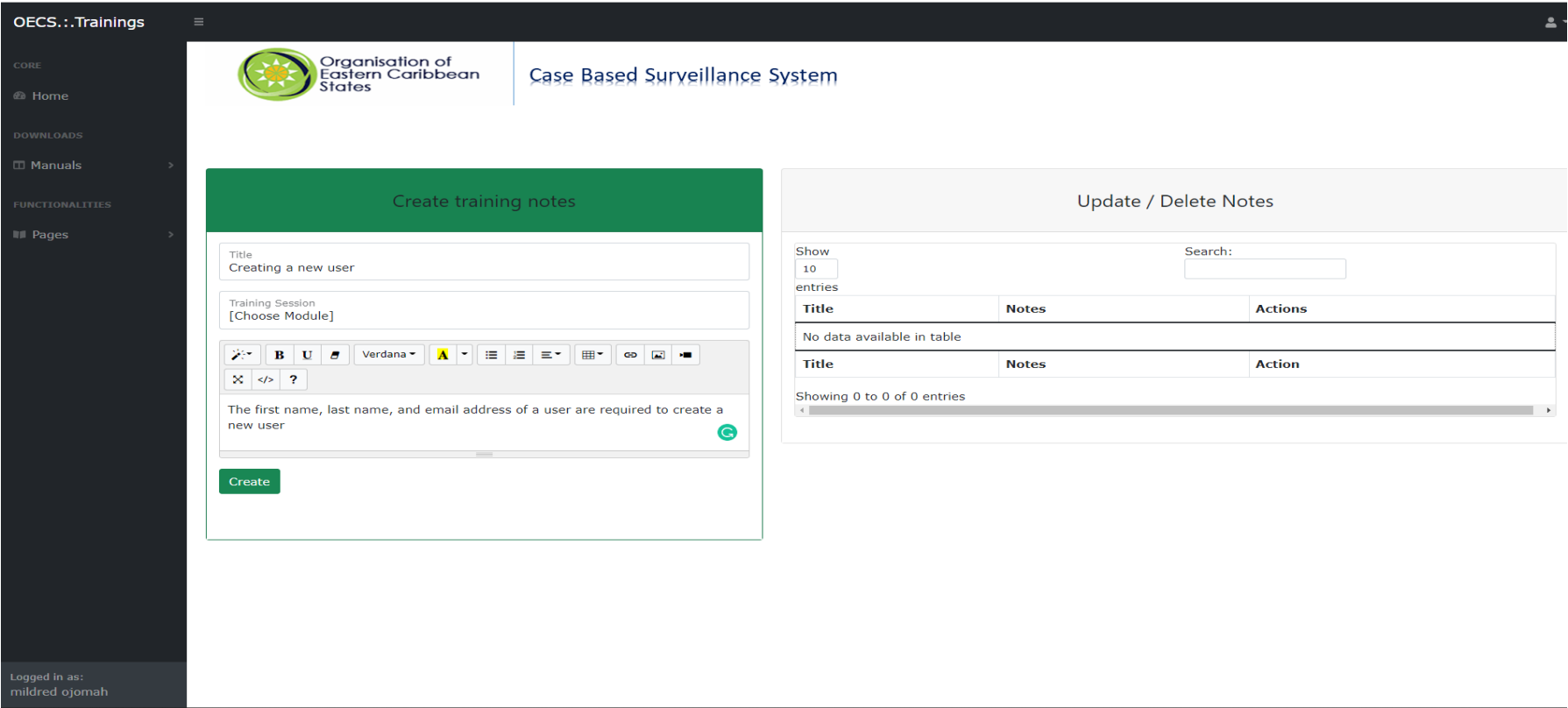


Figure 56: Creating a training note

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6.2.1.7 UPLOAD FILES/VIDEOS

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Enter a descriptive title for the file, select the file type, and click the Save button. This screen also allows you to delete a file that is no longer used.

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Pages

Notes, News, Uploads, Sessions.

Create Training Session(s)

Create Session Room(s)

Add Attendees to Training(s)

View Attendees Schedule


Create training Notes

Upload files / Videos

Create training announcements & News

Assessment &

Logged in as: mildred ojomah



Organisation of Eastern Caribbean States

Case Based Surveillance System

Upload a file

Upload files or links to videos

Note that very large files might not be uploaded. Please read the success message carefully to ensure that the upload was successful.

Title

Users manual

Training Session

Session 1 : Creating clients accounts

Choose File

end-user manual.docx

Note: accepted file types - mp4, jpeg, jpg, png, gif, bmp, pdf, docx

Upload

Form for File uploads

Delete upload

Show

10

entries

Search:

Title	File	Actions
No data available in table		
Title	File	Action

Showing 0 to 0 of 0 entries

Delete a file no longer in Use

Figure 58: Uploading a file

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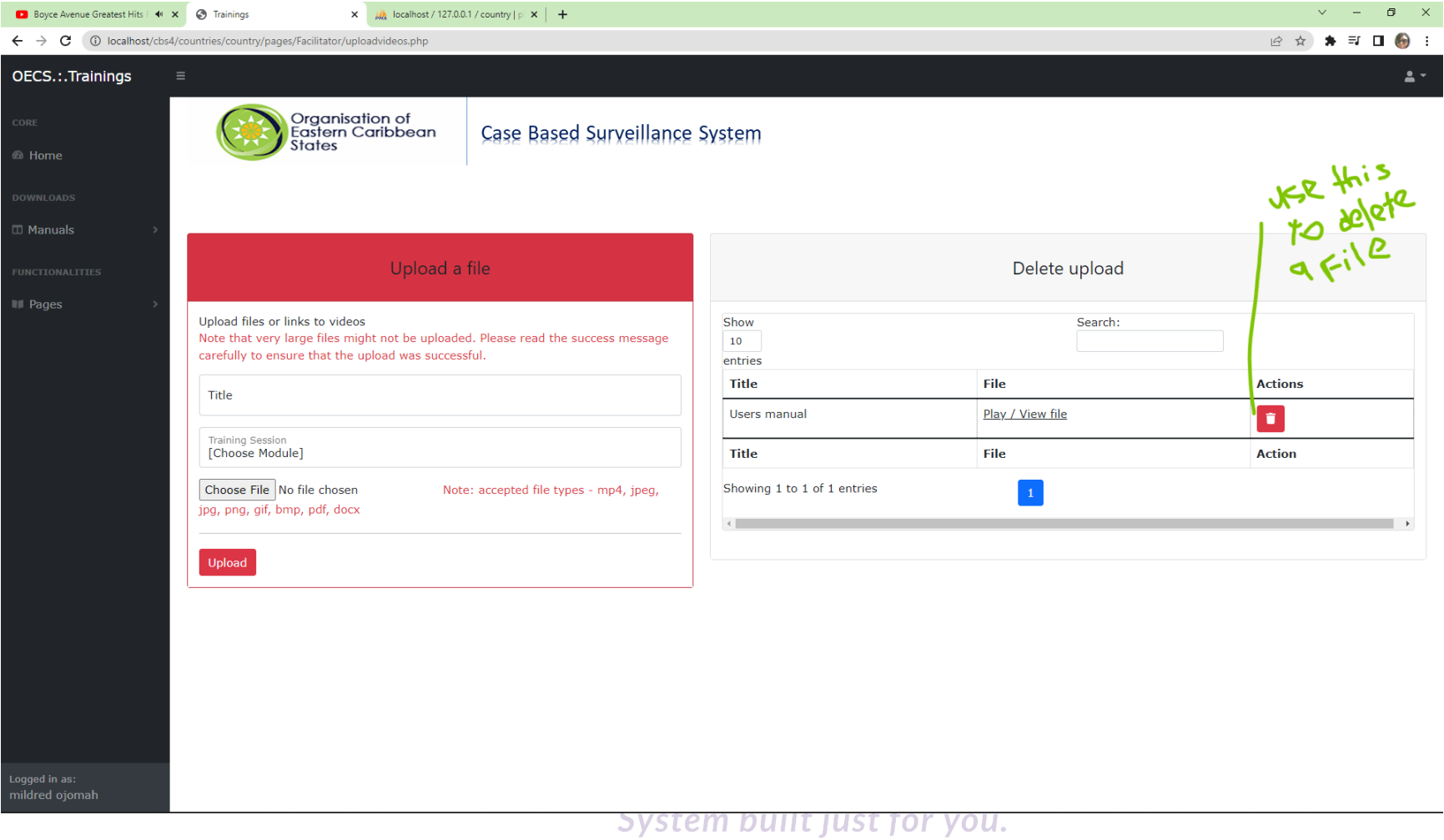


Figure 59: deleting an uploaded file

The screenshot displays the 'Case Based Surveillance System' web application. On the left, the 'Organisation of Eastern Caribbean States' logo is visible. The main header reads 'Case Based Surveillance System'. Below the header, there are two primary sections:

- Create News / Announcement:** This section contains a form for creating new news or announcements. It includes fields for 'Title' (with placeholder text 'Session assessments'), 'Training Session' (with placeholder text 'Session 2 : Creating clients account'), and a rich text editor with various formatting options (bold, italic, underline, link, unlink, bulleted list, numbered list, indent, outdent, table, code, image, video). A blue button labeled 'Create' is at the bottom.
- Delete News:** This section shows a table of existing news entries. Above the table, there are filters for 'Show' (set to 10) and 'Search:'. The table has three columns: 'Title', 'News', and 'Actions'. One entry is listed: 'Breaks between sessions' with the content 'Participants who wish to attend all the same sessions of a different group, note that you will be assessed only at your assigned session.' and a red trash icon in the actions column. Below the table, it says 'Showing 1 to 1 of 1 entries'.

Handwritten annotations in blue ink highlight specific areas:

- A bracket under the 'Create News / Announcement' section is labeled 'create session news'.
- An arrow points from the 'Previously Created News' label to the 'Delete News' section.

Systeme kann man auch für sich selbst nutzen.

Organisation of Eastern Caribbean States

Case Based Surveillance System

Create News / Announcement

Title

Training Session
[Choose Module]

Verdana

Create

Delete News

Show 10 entries

Search:

Title	News	Actions
Breaks between sessions	Participants who wish to attend all the same sessions of a different group, note that you will be assessed only at your assigned session.	
Session assessments	Participants who wish to attend all the same sessions of a different group, note that you will be assessed only at your assigned session.	

Showing 1 to 2 of 2 entries

1

Use this to delete news

Figure 61: deleting previously created training news/announcements

6.2.2 ASSESSMENT AND CERTIFICATION

This lists functionalities for creating, proctoring, grading, and releasing assessments for training participants.

The portal allows the facilitator to create a question pool from where assessment questions can be selected.

6.2.2.1 CREATE QUESTION POOL

This link displays a form to add a question to the question pool. Questions in the pool are reusable for multiple assessments, making it easier to set assessment questions for various groups in the future without the hassle of typing out new questions.

From the menu, select the 'create question pool' link. Enter the topic, sub-topic, question type [multi-choice or True/False], and question and answer options on the form. Once a question is added successfully to the pool, continue adding each question until all the intended questions are entered.

Once you have completed the questions, you should update them by choosing the correct answer and typing out feedback or an explanation about the answer.

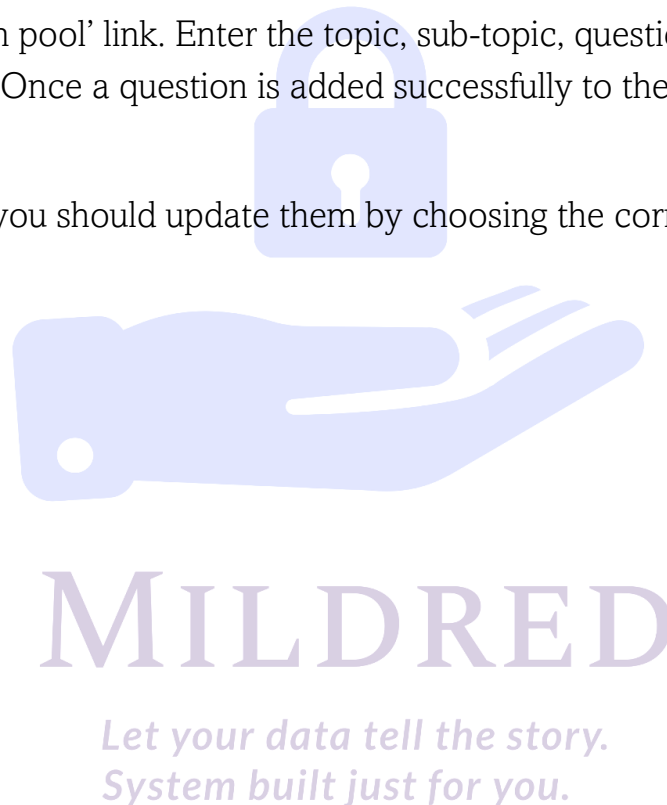


Figure 62: Add a question to the question pool

6.2.2.2 UPDATE QUESTIONS

Select the 'update questions' link from the drop-down menu to update questions in a pool. Then, click the edit button beside the question you wish to update to display it in an updateable form. The original entry is displayed on the form; if there is no error, add the correct answer and the answer feedback.

Once you have completed all the questions, you can now use the questions in an assessment.



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Mildred Ojomah





	(4) Creation of Training Workshop Answer(s): Creation of Training Workshop	
dc3a864aa2	One of the following is a function of the administrator role (1) User account creation (2) Creation of training workshop (3) Creation of training sessions (4) Creation of Session Rooms Answer(s): User account creation	 
51712d4e31	One of this functionality is not accessible by a user assigned the routine permission (1) HIV Care Card (2) Schedule Clinical Management Appointment (3) Record Vital Signs (4) Schedule Screening Appointments Answer(s):	 

Figure 63: Page display of questions in a pool for update. The edit symbol highlighted in red displays the question in an editable form

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Case Based Surveillance System

Question ID	Question Text	Update / Add Options
a4c070abb7	One of the following is a function of the developer role (1) Creation of training Sessions (2) Creation of Session room (3) Configuration of System (4) Creation of Training Workshop Answer(s): Creation of Training Workshop	
dc3a864aa2	One of the following is a function of the administrator role (1) User account creation (2) Creation of training workshop (3) Creation of training sessions (4) Creation of Session Rooms Answer(s): User account creation	
51712d4e31	One of this functionality is not accessible by a user assigned the routine permission (1) HIV Care Card (2) Schedule Clinical Management Appointment (3) Record Vital Signs (4) Schedule Screening Appointments	

51712d4e31

Topic

Screenings and Management

Sub topic

Patient Monitoring

Question

One of this functionality is not accessible by a user assigned the routine permission

Question Type

multi-choice

Answer

☒ HIV Care Card
☐ Schedule Clinical Management Appointment
☐ Record Vital Signs
☐ Schedule Screening Appointments

Answer Feedback

The HIV Care Card is only accessible to a user assigned the clinical_management permission. Routine permission only allows a user schedule appointments and record visits

Update

Figure 64: Update Question showing the editable form with correct answer and feedback entered

6.2.2.3 CREATE & CONFIGURE TRAINING ASSESSMENT

Click on the 'Create and Configure Training Assessment' button. This page holds two forms in the main content area. Create a new assessment using the form on the left of the page. This form automatically generates the assessment ID and access code on their input field. Enter the intended date of access, end of access date, assessment type, the total score for the assessment, the number of trials allowed, and the training session the assessment covers.

There are three types of assessment:

- Certification: This assessment certifies the participant as an expert in correctly using the functionalities.
- Pre-Assessment: This assessment is given at the start of the training session to assess the participant's knowledge of a topic before the training.
- Summative Assessment is any assessment given to the participant after the training session to determine whether knowledge has been impacted.

Once an assessment is created, note the assessment ID. The newly created assessment will be displayed in a new row in the right section of the main content area. You can edit the assessment settings on this form, like the access code, start and end dates, and the number of trials. All assessments are unlocked by default. You can also edit this on the form to change the status from unlocked to locked. This is particularly useful when the access date is still in the future, and you want to lock the assessment temporarily from participants' access. Whenever you change any assessment settings, click the action button on the row of the settings you edited.

After the settings have been edited to the desired values, it is time to add questions to the assessment.

Beneath the assessment settings form is a form with a field where you can enter the assessment ID. Enter the assessment ID here and click on the set questions button. You will be redirected to a new page with three tabbed forms if the assessment ID is correct.



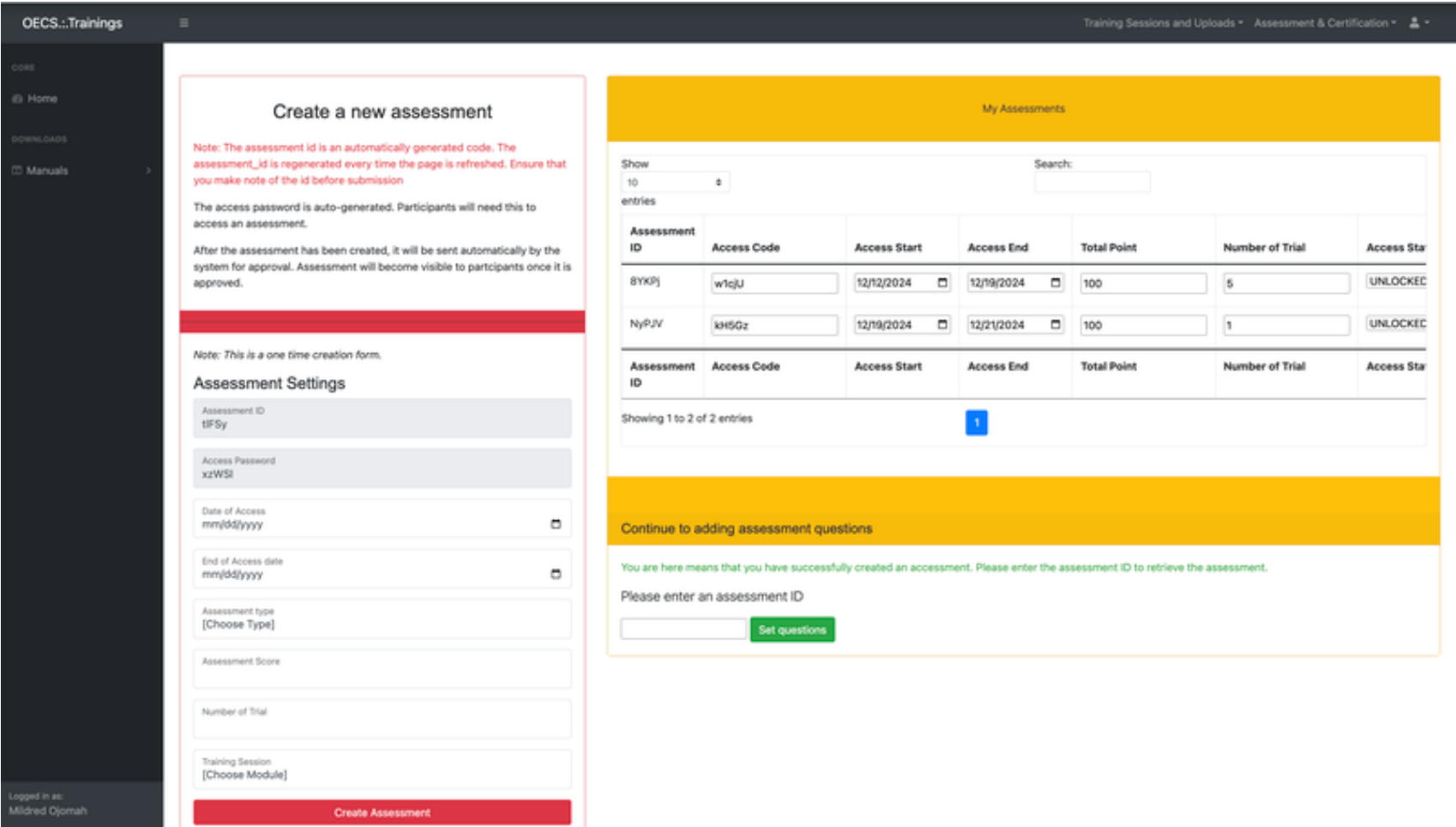


Figure 65: Create an assessment / Edit assessment settings page

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my Assessments

Show

10

Search:

entries

Assessment ID	Access Code	Access Start	Access End	Total Point	Number of questions
8YKPj	w1cjU	12/12/2024	12/19/2024	100	5
NyPJV	kH5Gz	12/19/2024	12/21/2024	100	1
qzPJV	vCijG	12/24/2024	12/29/2024	50	1
Assessment ID	Access Code	Access Start	Access End	Total Point	Number of questions

Showing 1 to 3 of 3 entries

1

Continue to adding assessment questions

You are here means that you have successfully created an accessment. Please enter the assessment ID to retrieve the assessment.

Please enter an assessment ID

.....

Set questions

Figure 66: Retrieve the newly created assessment to add questions.

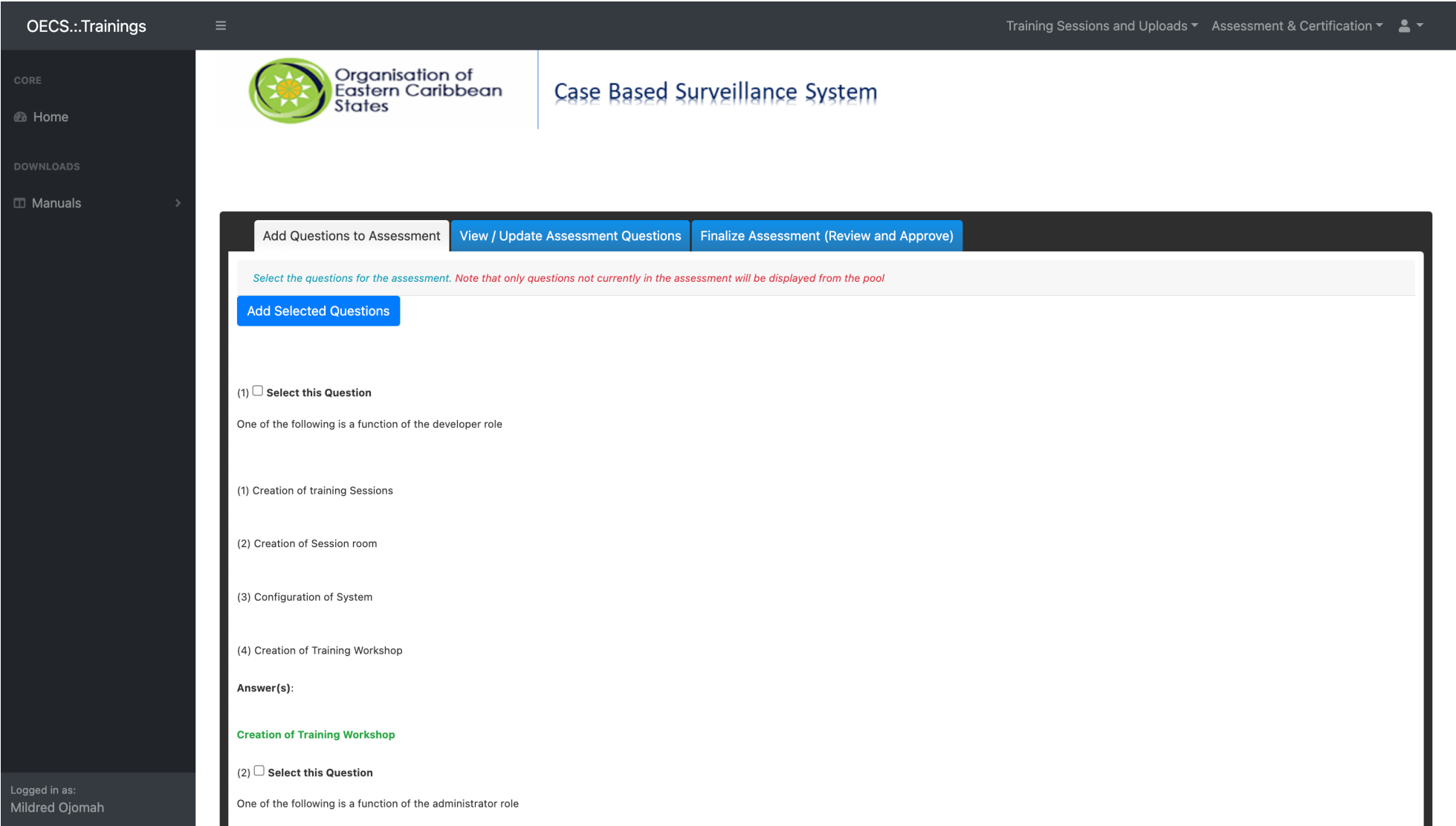


Figure 67: Set questions page. With three tabs to add questions to the assessment, update the questions with the number of points for each question and a review and release page when finalized.

6.2.2.4 ADD QUESTIONS AND FINALIZE THE ASSESSMENT.

The assessment creation page contains a form for entering the assessment ID to finalize. Enter the correct assessment ID and click the Add Questions button to reveal a page with three tabs in a container.

Tab 1: Add Questions to Assessment: This form displays all the questions in the pool. Click on the check box above the questions you wish to add to this assessment. When done, click on the add selected questions button. **NOTE: The pool only shows questions not previously added to the current assessment. Questions in the pool are not affected by other assessments. All the questions in the pool are available for every new assessment.**

Tab 2: View / Update Assessment Question: This form only populates with the questions selected for the assessment from tab 1. Review each question and assign grade points to them. **Note that the total grade point must equal the total grade for the assessment set on assessment creation. If this is not the case, the points will be saved, but the button to release the assessment will be disabled.** Once the assessment points are set, click the update button to save the values. You can return to this tab to change the point values assigned to each question should you desire a change later.

Tab 3: Finalize Assessment (Review and Approve): This tab holds the assessment with the questions and points assigned. If all settings are accepted, a release button will appear at the bottom of the tab. Click on this button to make the assessment available to participants. The availability of the assessment also depends on the access date and whether it is unlocked.

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6.2.2.5 UNLOCK AN ASSESSMENT

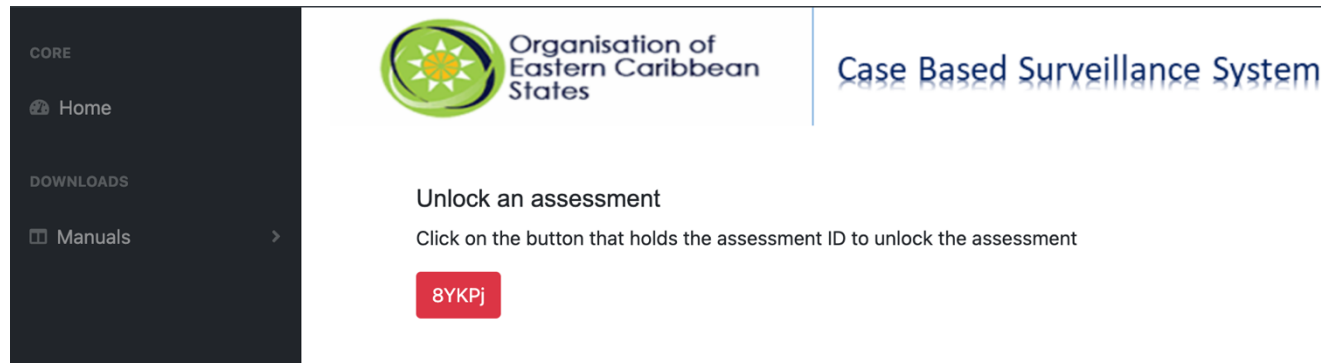


Figure 68: Page to unlock a locked assessment showing button with assessment ID of an assessment to be unlocked

If assessments are marked as locked, a button labeled with the assessment ID for each locked assessment will display on this page. Click on the button with the assessment ID you wish to unlock to unlock the assessment.

6.2.2.6 VIEW GRADES

When participants end an assessment, the grade for the final attempt is only calculated and saved. These grades can be viewed by selecting the view grades button and then selecting the assessment ID to view the participants' grades for that assessment.

6.2.2.7 RELEASE GRADES & FEEDBACK

Click on the button holding the assessment ID. This will release the grades and assessment feedback on the participants' pages.

NOTE: Do not click on this button before the assessment is concluded, as participants can view all the correct answers to questions.

6.3 THE PARTICIPANT ROLE

The participant home page holds a side navigation and a main content area. The main content area holds bookmark hyperlinks to jump to the announcement part of the page, the live training schedule, links to download resources, and the training notes. The side navigation holds a page menu with the assessment and certification sub-menu. This has links to certification, pre-assessment, and summative assessment pages. To join a live training session, click on the join live link highlighted in the figure below. This will redirect you to the video conferencing platform being used for the training. If a password is required to join the session, it will be provided in the next column to the right of the join live link.

The main content area displays all announcements for the training sessions at the top and contains links to download resources. Under the resources heading, click the view/download resources button.

Your facilitator will provide the assessment ID and access code if the training workshop includes assessments. To access the assessments, Expand the Pages menu on the left to reveal the Assessments and Certifications submenu.

There are three types of assessment: Certification, Pre-Assessment, and Summative Assessment. Clicking on the link to the kind of assessment reveals a form where the access code should be entered to answer questions. A page with all the assessment questions will display if the access code is correct.

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- Certifications
- Pre-Assessment
- Summative Assessment
- Grades And Feed Back



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Logout

News And Announcements

Join Live Training

Resources

Notes

Announcements

24-09-15 02:44:46pm
For everyone attending this training session, you must log in as an Administrator
24-09-15 02:45:54pm
\$smtpsecure, \$smtpauth, \$smtpport, \$smtphost, \$emailadd, \$emailpass

Live Training Schedule

Showing 1 to 1 of 1 entries

1

Resources

Showing 1 to 2 of 2 entries

Previous 1 Next

Training Notes

System Modules Click to read

Figure 69 : The Participant home page showing all functionalities for the participant

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Certifications

Pre-Assessment

Summative Assessment

Grades and Feedback

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Welcome to Pre-assessment

All assessment listed here are access controlled. Your facilitator will give you the access code. Once a correct access code is entered, your question form will be displayed at the top of this page.

Pre-assessment

Assessment ID

Access Code

Start assessment

Get

Figure 70: Summative assessment link showing the released assessment and a field to enter the access code.

6.3.1 TAKING AN ASSESSMENT

After entering the correct access code, click on the get button to reveal the assessment questions. Beneath each question is a submit button. It is advisable to submit each question as you answer them. The system will allow you to change your answers or

resubmit should you need to update question answers before Finishing the assessment. **NOTE: Ensure all answers to the questions have been submitted before clicking on the Finish Assessment button.** The grade is calculated and displayed once the Finish Assessment button is clicked. Depending on the assessment settings, you can take the assessment multiple times to reach maximum trials. **Also, note that the last trial grade is the grade that will be recorded as your final grade.**



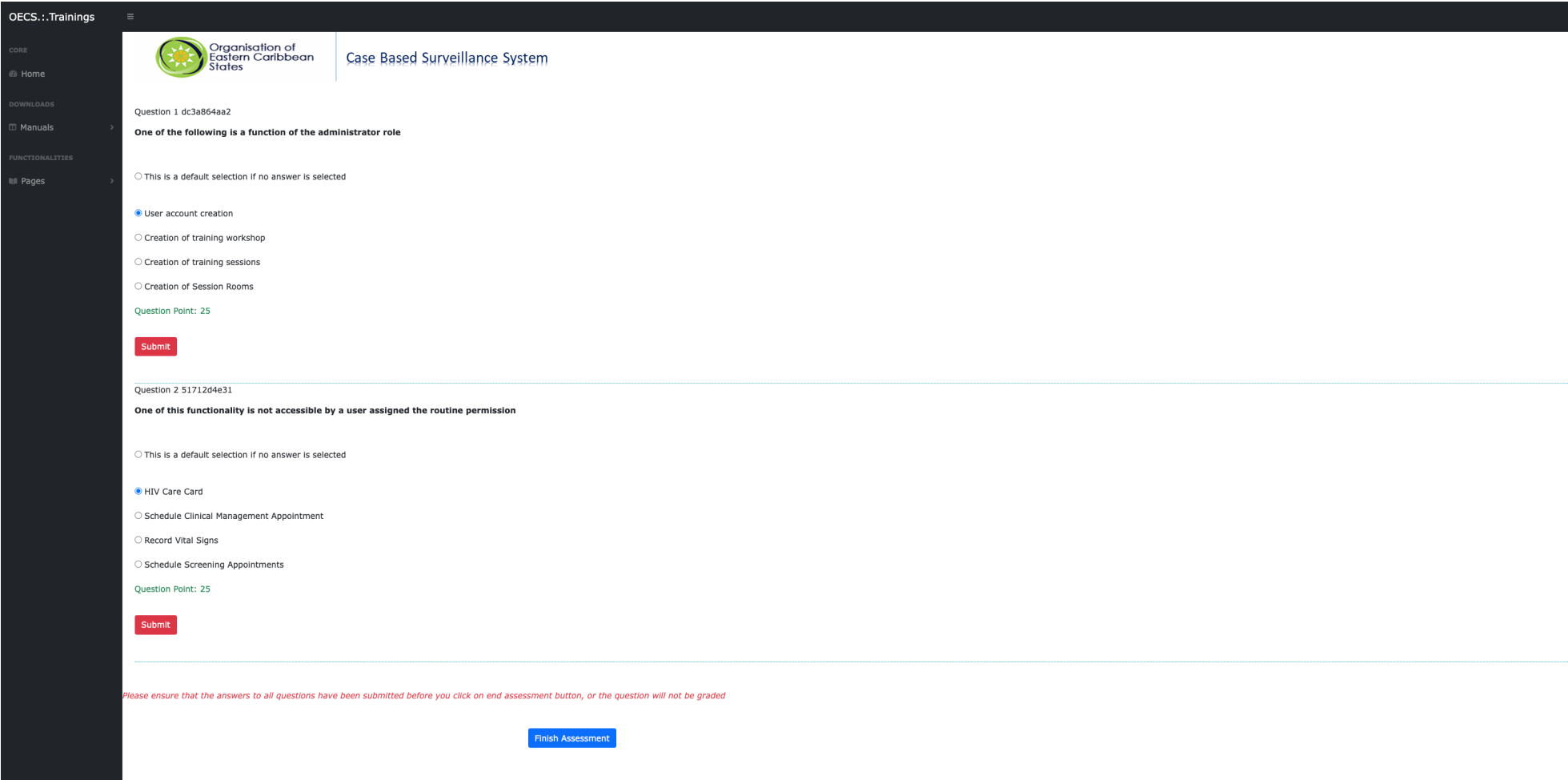


Figure 71: Assessment page showing assessment questions after the correct access code is provided

Click on the grades and feedback sub-menu to view grades and assessment question feedback.

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Copy CSV Excel PDF Print

Search:

S/N	Time Graded	Assessment ID	Student Score	Number of times tried
1	24-12-26 02:56:52pm	qzPJV	50/50	1
2	24-12-12 08:18:16am	8YKPj	100/100	1

Showing 1 to 2 of 2 entries

Previous 1 Next

8YKPj

qzPJV

Click on the button that holds the assessment id and scroll down to review questions and feedback.

Grades and Feedback

Figure 72: Grades and Feedback page showing the assessment grades and buttons to get feedback

The grades and Feedback page holds two sessions in its main content area. The first section holds the grades for each assessment. The right side session holds buttons for each assessment whose feedback has been released by the facilitator. Click on the button to see the questions and correct answers with explanation displayed.

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S/N	Time Graded	Assessment ID	Student Score	Number of times tried
1	24-12-26 02:56:52pm	qzPJV	50/50	1
2	24-12-12 08:18:16am	8YKPj	100/100	1

Showing 1 to 2 of 2 entries

Previous 1 Next

Click on the button that holds the assessment id and scroll down to review questions and feedback.

8YKPj

qzPJV

Question 1 dc3a864aa2

One of the following is a function of the administrator role

✓ User account creation

✗ Creation of training workshop

✗ Creation of training sessions

✗ Creation of Session Rooms

Feedback

A user with the Administrator role is tasked with the creation and management of users account for the patient management and reporting system.

Question 2 51712d4e31

One of this functionality is not accessible by a user assigned the routine permission

✓ HIV Care Card

✗ Schedule Clinical Management Appointment

✗ Record Vital Signs

✗ Schedule Screening Appointments

Feedback

Figure 73: Page showing the questions' feedback

205

6.4 THE GUEST ROLE

The Guest role has all the functionalities of the participant role except the Assessment and Certifications functionalities.

The Guest home page holds bookmark hyperlinks to jump to the announcement part of the page, the live training schedule, links to download resources, and the training notes. To join a live training session, click on the join live link. This will redirect you to the video conferencing platform being used for the training. If a password is required to join the session, it will be provided in the next column to the right of the join live link.

The main content area displays all announcements for the training sessions at the top and contains links to download resources. Under the resources heading, click the view/download resources button.

7 SELF-TEST (INTERNAL AND EXTERNAL REPORTING)

Notice the application's Index page (figure 7). To the right of the main content area, the form with the header title “Report HIV/Syphilis self-test” is the external form for self-test reporting and is mobile-friendly. When clients receive a self-test kit, they should receive it along with the site address to self-report their test results or their partners once done. If they cannot self-report, the provider can help record their test). The required fields on the form are the kit serial number, the category of the test, the result, and the date. Encourage clients with an account on the system to enter their unique I.D. when reporting results.

8 PRACTICE CASE SCENARIOS AND WALK-THROUGH

8.1 CASE 1: SCREENINGS, REFERRALS, AND PREVENTION

Jeff is a 40-year-old married (to a biological female) father of 2 children who has a male partner for casual sex. He lives at 25 Halfway house, Grand Estate, Rivertown, Parkland. Jeff has 5-9 sexual partners; Heterosexual but romantically attracted to more than one gender. He uses alcohol occasionally & smokes tobacco to curb his anxiety, and recently had an anal unprotected sexual encounter with a new male friend he met at a party and shared needles while injecting drugs. Four months ago, he had an N.gonorrhoea and C.trachomatis infection. He was treated with 240mg Gentamicin IM plus azithromycin 2g PO single dose. He is allergic to cephalosporins. He presents at the health center today with Mucocutaneous lesions on the palms of his hand. He received a transfusion of platelets for hemorrhagic fever during his high-school years. Due to his risk behaviors, he was screened for Hepatitis B, HTLV, HIV, and Syphilis through routine serological testing at the STI Clinic. His result returned with a reactive RPR /VDRL(1:64) and reactive TPPA/TPHA. He could not recall being treated for Syphilis previously. He was told to ask his wife and partners to come in for screening and treatment. Jeff does not want to tell his wife but knows she is at risk.

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WALKTHROUGH CASE 1: UNDER THE PAGES MENU, EXPAND THE GENERAL POPULATION COUNSELING AND TESTING OPTION

- Create an account for Jeff (a one-time process) and take note of the unique ID used.
- Request Release of the client's file using the Unique I.D
- Collect Information using the Unique I.D.
- Continue the process to record all information



8.2 CASE 2: SCREENINGS, PREVENTION, AND RISK REDUCTION

Jane is a 35 years old accountant who lives alone and has two male sexual partners (Jack, her steady boyfriend, and James, whom she sees casually) and one injection drug partner. James uses condoms always, but Jack never does. Occasionally she may do some marijuana when she hangs out with James. She presents at the clinic today for routine screening. Her provider gave her a risk reduction plan, educational brochures & condoms. She was encouraged to discuss with her partners for testing.

8.2.1 WALKTHROUGH CASE 2: UNDER THE PAGES MENU, EXPAND THE GENERAL POPULATION COUNSELING AND TESTING OPTION

- Create an account for Jane (a one-time process) and take note of the unique I.D used
- Request Release of the client's file using the Unique I.D.
- Collect Information using the Unique I.D.
 - o List Jack and James as contacts for risk reduction.

- Continue the process to collect all information
- Create accounts for James and Jack and follow the procedures from step 1 for each. (Read case 4 to inform you of the labs for James)

8.3 CASE 3: PEDIATRIC HIV, PREVENTION AND OTHER STDS SCREENINGS, REFERRAL, PREVENTION, AND MANAGEMENT

Grace is an 11-year-old girl brought to the Accident and Emergency room by her mother because her neighbor's son has raped her. She has been abused physically by her parents because of her perceived disobedience, and she admits to the nurse that she has been sexually active since she was 9. Routine blood screening reveals that Grace is Syphilis positive, has genital warts, and is HIV positive.

8.3.1 WALKTHROUGH CASE 3: UNDER THE PAGES MENU, EXPAND THE GENERAL POPULATION COUNSELING AND TESTING OPTION

- Create an account for Grace (a one-time process) and take note of the unique I.D. used.
- Request Release of the client's file using the Unique I.D.
- Collect Information using the Unique I.D.
 - o List her neighbor as her contact.
- Continue the process (make sure to refer to Grace for HIV care and Other care. Because Grace is Pediatric, it is required to do the two referrals. If Grace were an Adult, then only HIV referral would be required)

8.3.2 CASE 3: CARE REGISTRATION AND MANAGEMENT

A referral exists for Grace from testing site x; the date confirmed positive = seven days prior to the current date, with a reactive VDRL/TPHA titer 1:64.

- Expand the care registrations and Initial registration sub-menu of the pages menu
 - o Select the view other care referrals option and ensure that Grace was referred and was categorized as pediatric.
 - o Select other care registration, and use the unique I.D to retrieve the registration form.
 - o Select the view HIV care referrals option and ensure that Grace was referred and categorized as pediatric.
 - o Select HIV Care registration (Adult/Adolescent/Pediatric) and register grace into care
 - o Select Pediatric Initial and Clinical Evaluation and fill out the forms.
- Expand the psycho-social support/adherence counseling sub-menu of the pages menu.
 - o Select Schedule counseling appointment (schedule for adherence readiness assessment).
 - o Select start counseling encounter and fill out the forms
- Expand the Appointments and Patient Monitoring sub-menu of the pages menu
 - o Select the Schedule new clinical management / CD4 / VL appointment.
 - o Create Visit/record vital signs
- Expand the Clinical Management
 - o HIV care card and fill out the forms.

- Other Care Card and fill out the forms.

8.4 CASE 4: DO IT YOURSELF

James is a client who came in for testing via partner notification service via case 2. He is heterosexual, has three female sexual partners, and was incarcerated for three months about two years ago for shoplifting. With Jane, his casual sexual partner, he uses a condom consistently, and he rarely uses a condom with his other two sexual partners. Screenings for HIV and Syphilis revealed a reactive HIV, and RPR/VDRL returned reactive (1:128). The confirmatory screening revealed a positive HIV-EIA and reactive TPPA/FTA/TPHA.

8.5 CASE 5 – ANC, PMTCT, PREVENTION, AND MANAGEMENT:

Josette is a 15-year-old Form 5 student. After not seeing her period for two months, she presents to the health center. A pregnancy test reveals that she is pregnant. Her last LMP was 13 weeks ago. This is her first pregnancy with no history of chronic medical illnesses, a family history of diabetes and hypertension, and no surgical history or medications. She presents with a mild nonproductive cough. Her HIV and Syphilis screening returned non-reactive. Josette breaks up with her partner (and baby father) Philip during the pregnancy and has a new boyfriend named John. About three months later (Gestation age 26 weeks), they go for screening since they have become sexually intimate. She now presents a mild rash on the palm of her hands and is a bit more tired at the end of the day.

Her serology results show that she is HIV positive and RPR/VDRL reactive 1: 16. Other results include HTLV1 negative, TPHA reactive, HBsAg positive, Hemoglobin 9.8, HB Electrophoresis - AA, blood group A with Rhesus null, vaginal swabs positive for bacterial vaginosis, and endocervical swabs negative. Her 25 years old partner John is also HIV positive and has Syphilis positive RPR reactive 1: 128 and positive for Herpes.

An ultrasound scan reveals that the fetus had a gestational age of 25 weeks and four days, a fetal heartbeat of 140bpm, with no congenital disabilities.

Josette has had her entire course of immunizations at birth. She received treatment for Syphilis with three weekly injections of Penicillin. She is immediately started on antiretroviral therapy. She is given the standard single-tablet combination of TDF/FTC/EFV. As a policy for all antenatal clients, the Clinic tested Josette for HIV drug resistance with a genotype test. (The clinical team will decide the treatment outcome, including her cd4 and viral load, plus edit the PMTCT intervention given).

She later had a vaginal delivery of a 7lb baby boy at 39 weeks gestation. (The clinical team will discuss the baby's outcome, the intervention, screenings, and immunizations).

When the infant was seven weeks old, Josette brought him to the Clinic for his first infant checkup. He was asymptomatic. There, his AZT medication was stopped, and he was continued on Septrin and given his second DNA PCR test. Josette continued her HIV care at the Clinic. Her HIV Drug resistance test results returned, showing that she had K65R and K103N mutations, which made her 1st line regimen inferior. She was subsequently switched to second-line AZT/3TC and Atazanavir /Ritonavir. Her follow-

up STI screening showed that she was positive for Chlamydia, and she revealed that she had made up with her child's father but was still seeing John. Given her risk behavior, she was given a risk reduction plan. She listed her baby's father as a contact for provider referral screening and testing.

8.5.1 CASE 5 WALKTHROUGH

Follow the process from 8.3.1 and 8.3.2 with the following adjustments.

- Collect information: On the collect information screen, follow the directions below
 - o Fill in the forms in the personal information, risk behaviors, and comorbidities /other's tab.
 - o Skip the HIV screenings, TB screenings, Syphilis Screenings, and other Screenings, and upload screening results and vaccination history tabs.
 - o Optionally fill the contact listing and extra notes tab depending on the lab results and the risk.
 - o Follow the rest of the directions starting from the pregnancy history tab to the update baby tab

The above process is a simplified, summarized process. This case tests the intimate knowledge of all the screenings and management functionalities.

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8.6 CASE 6: DO IT YOURSELF

Susan is a 42-year-old gravida 4 para 2 Aborta 1 female presenting for an antenatal checkup in the last trimester of her pregnancy. Her last menstrual period was on November 27, 2021. She has a history of oligohydramnios. She currently complains of occasional headaches and swollen feet at the end of the day. She works as a loans officer at the local Bank. Her mother and father had hypertension and diabetes; the father died of myocardial infarction, while the mother died of a stroke. She had a dilation and curettage for her second pregnancy following a fetal demise.

Her serology screening on this first follow-up visit indicates that she is negative for HIV and Syphilis (non-reactive TPHA and RPR). The rest of her serology results for HTLV and Hepatitis are both negative. Blood group AB with RH positive and glucose results were normal. Susan has had all previous immunization and does not require any during this pregnancy.

On her physical exams, the vitals are within the normal range, and there are no signs of anemia, lymphadenopathy, or fever. Her abdomen is soft and distended with a fundus height of --- cm, 4 cm above the umbilicus. Fetal movements are present, and the doppler shows a heartbeat of 90bpm. Her cardiovascular, respiratory, neurological, and musculoskeletal exams are normal except for some mild pitting edema of her legs. Breast and genital examinations are also normal. The overall assessment shows that her pregnancy is not developing well, and she is again at risk of miscarriage.

Susan delivers a healthy baby girl weighing 6.2 lbs via cesarean section due to respiratory distress and a cord around her neck. They spent six days in the hospital and were discharged with a clean bill of health. Susan ensured that she adhered to her six weeks follow-up for her baby girl and to see her primary care physician for her hypertension.

8.7 CASE 7: DO IT YOURSELF

Isabel is a 27 years old pregnant client Gravida 5 para 4 presenting for labor without any antenatal visits. She has four children, all under ten years old. She is currently in mild distress and has some contractions and ruptured membranes. A rapid HIV & Syphilis blood test is done for her. The results indicate that she is HIV negative but Syphilis reactive and is guided through labor and given a stat dose of Penicillin. Her full serology was taken immediately after labor for Hepatitis B, C, HTLV, Syphilis, and HIV. All were negative except for Syphilis VDRL/TPHA 1:64. Her infant was also given a full serology test and was negative for all tests except Syphilis with an RPR titer of ----. The infant was immediately given Penicillin stat dose for Syphilis.

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9 TRAINING AND ASSESSMENT SCENARIOS

9.1 CASE 1:

Bruno is a 42-year-old Caucasian male presenting at the health center with reports of several weeks of generalized weakness, nausea, headaches, clay-colored stool, and joint stiffness. He has never left or resided elsewhere; he is single, unemployed, has sex with men only, and never uses condoms. He uses injection drugs and has had over ten sexual and injection drug partners in the last year. He received a transfusion of blood two years ago. He has no existing medical condition. He was incarcerated about three years ago, was homeless after release, and has sex in exchange for food and drugs.

Screening Information

He was screened for HIV, Syphilis, and Viral Hepatitis.

His result is as follows:

VDRL reactive Titre 1:256 TPHA reactive

HIV Rapid non-reactive

HBsAg: Positive

HCV antibody: reactive

HCV RNA: detected (Genotype 1 HCV)



Contacts

Household:

Brown James -222-2222

John Green – 444-4444

Injection Drugs and Sexual Partners Listed

Noah Oliver – 45, park street 888-8888

Lucas Benjamin – 999-9999

Philip James - 876-4567

Jacob Mason 111-1111

Elijah Logan 555-5555

Alexander Jackson 333-3333

Mateo Owen 777-7777



After confirmation, Bruno was referred for Registration and Management.

9.1.1 CLINICAL MANAGEMENT OF BRUNO

Physical examination revealed an ulcerated plaque on the upper lip, a macular rash with three crater-like scarred painless lesions (healing Chancres) on the glans, a nonpruritic hyperkeratotic maculopapular palmar rash, and bilateral submandibular lymphadenopathy. No ocular or cardiovascular abnormalities were noted. Other symptoms are Fever, Fatigue, and Jaundice.

Other Evaluation attached below:




HAEMATOTOLOGY				
WBC	3.9		10 ⁹ /L	3.6-11.0
GRAN %	33.3		%	30-75
GRAN #		13.3 L	10 ⁹ /L	1.6-7.5
LYMPH %	50.4		%	15-55
LYMPH #	2.0		10 ⁹ /L	1.5-4.5
MONOCYTES		13.5 H	%	2-12
MONOCYTES	0.53		10 ⁹ /L	0.2-1.0
EOSINOPHILS %	2.6		%	0-5
EOSINOPHILS #	0.10		10 ⁹ /uL	0.00-0.5
BASOPHILS %	0.2		%	0-3
RBC	4.08		10 ¹² /L	3.8-5.8
HGB		11.0 L	g/dL	11.3-16.5
HCT		32.0 L	%	36-47
MCV	78.4		fL	75-95
MCH	27.1		pg	26.5-32.0
MCHC	34.5		g/dL	32.0-36.0
RDW	13.00		%	10.0-14.5
PLATELETS		131 L	10 ⁹ /L	150-400
LIVER PANEL				
TOTAL PROTEIN	7.41		g/dL	6.2-8.7
ALBUMIN	3.8		g/dL	3.3-5.3
GLOBULIN	3.62		g/dL	2.0-4.8
A/G RATIO	1.0		Ratio	0.6-2.2
ALK PHOSPHATASE	72.5		U/L	37-116
AST (SGOT)		223.7 H	U/L	0-40
ALT (SGPT)		268.2 H	U/L	0-38
GGT		255.8 H	U/L	0-60
TOTAL BILIRUBIN	0.57		mg/dL	0.2-1.6
Reviewed by: Donnah Providence				
End of Report				
 ACCREDITATION CANADA INTERNATIONAL <i>Driving Quality Health Services</i>				
Laboratory Services & Consultations Ltd. Tapscott Hospital/Gabriel's Hall/Redwood Bay Soufriere / Vieux-Fort P.O. Box 711, St. Lucia Reviewed by:				

Figure 74: Lab evaluation for Bruno

Fibro Test Score: 0.28 F1 -Minimum Fibrosis

Encephalopathy: None (1 Point)

Ascites: Absent (1 Point)

Prothrombin time: < 4 seconds

Staging of Cirrhosis (Child-Pugh): A (5-6)

Weight: 230lbs

Make up other Vital Signs

Drug allergies: Penicillin, Codeine

Diagnosis: Secondary Syphilis, Hepatitis B & C

Treatment: Doxycycline 100 mg PO BID x 2/ 52 *add other treatments based on assessments. He was hospitalized, later discharged after 72 hrs., and sent back to the Health Center for Prevention Services Due to his risk behaviors.



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9.1.2 OTHER PARTNER SCREENINGS FOR PREVENTION AND EXPEDITED PARTNER THERAPY FOR BRUNO

Injection Drugs and Sexual Partners Listed

Noah Oliver – 45, park street 888-8888

Lucas Benjamin – 999-9999

Philip James - 876-4567

Jacob Mason 111-1111

Elijah Logan 555-5555

Alexander Jackson 333-3333

Mateo Owen 777-7777

Household:

Brown James -222-2222

John Green – 444-4444



All clients should be screened at the health center (use their names and make up their story) as part of contact tracing and referred for Expedited Partner Therapy. Also, every client should have a risk reduction session.

9.2 CASE 2:

Elijah Logan is a client screened as part of Partner Notification Service. He is an Injection drug partner of Case 1. He reported feeling weak, with body pains and headaches. He is heterosexual, and Serology screening reveals the following:

HIV Rapid Test: Reactive

VDRL and TPHA: Reactive titre 1:128

HIV EIA: Positive

Xpert MTB/RIF: MTB detected RIF Resistant

He was referred from the Testing site for Care Registration and Management.

Other lab reports below



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HAEMATOLOGY

WBC		2.1 L	$10^9/L$	3.6-11.0
GRAN %		27.0 L	%	30-75
Left shift of neutrophils				
GRAN #		0.6 L	$10^9/L$	1.6-7.5
LYMPH %		55.3 H	%	15-55
Several reactive ++ cells c/w Dengue fever				
LYMPH #		1.1 L	$10^9/L$	1.5-4.5
MONOCYTES		14.4 H	%	2-12
MONOCYTES	0.30		$10^9/L$	0.2-1.0
EOSINOPHILS %	2.7		%	0-5
EOSINOPHILS #	0.06		$10^9/uL$	0.00-0.5
BASOPHILS %	0.6		%	0-3
RBC	4.36		$10^{12}/L$	3.8-5.8
HGB	11.6		g/dL	11.5-16.5
HCT		34.2 L	%	36-47
MCV	78.5		fL	75-95
MCH	26.7		pg	26.5-32.0
MCHC	34.0		g/dL	32.0-36.0
RDW	13.10		%	10.0-14.5
PLATELETS		59 L	$10^9/L$	150-400
Pleomorphic with large cells, reduced numbers on film				

SED RATE **24 H** mm/hr 1-20

Reviewed by: Susan Forde

End of Report



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Laboratory Services & Consultations Ltd
Tapion Hospital/Gabarras Hall/Rodney Bay
Reviewed by: Soufriere / Vieux-Fort
P.O. Box GM 711, St. Lucia

Figure 75: Lab evaluation results Elijah

9.3 CASE 3:

Dorothy, a 28-year-old female gravida 2 para 1 of gestational age 38 weeks and five days duration, presents for antenatal for the first time. Her daughter Princess is a 3 ½ years old girl whose mother has been brought in for an HIV test because of fear that her child could be HIV infected. Such fears stem from the fact that Dorothy was diagnosed with HIV infection on another island four years ago but never came in for treatment, nor did she receive antenatal care during this current pregnancy. Princess is not developing like other children her age. She has recently lost quite a bit of weight and has recurrent respiratory tract infections, intermittent fevers, skin rashes, and swollen lymph glands, which have been more frequent over the past six months.

Dorothy fears her daughter Princess might be HIV positive and is even more concerned for her unborn child. She cannot live any longer in denial and wants to be retested for HIV and have Princess tested.

On assessment by the midwife, Dorothy was 2 cm dilated. She was asked to check into the maternity unit at the hospital. Both Dorothy and Princess were confirmed HIV positive and immediately referred for care registration and Management. A few hours later, Dorothy arrived at the hospital, where her labor progressed rapidly. Jason was born weighing 5.5 lbs, 45 cm length, HC = 33 cm CC = 32 cm

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URINE GLUCOSE	Negative		mg/dL	Negative
KETONES	Negative		mg/dL	Negative
BLOOD		Trace-Lysed		Negative
PROTEIN	0		mg/dL	<30
BILIRUBIN	Negative			Negative
UROBILINOGEN	0.2			0.0-1
NITRITES	Negative			Negative
LEUKOCYTES		2+		Negative
URINE MICROSCOPY	SeeBelow			
URINE WBC		4-8	/HPF	None
URINE RBC		Occ	/HPF	None
EPITHELIAL CELLS		2-4	/HPF	0-2
BACTERIA		2+		None
MUCUS	None			None
YEAST		1+		None
CRYSTALS	None			None
CASTS	None		/LPF	None
MICROBIOLOGY				
GRAM STAIN	See Note			
4+ gram variable bacilli, 4+ gram positive cocci, 1+ yeast/oil				
Suggestive of bacterial vaginosis.				
URINE CULTURE	FINAL REPORT			
SOURCE: URINE				
No significant growth				
ENDOCERV CULT.	FINAL REPORT			
SOURCE: HVS				
No significant growth				
WET PREP SCREEN				
TRICHOMONAS	None			
YEAST		Trace		

Figure 76: Dorothy's laboratory result after delivery

In addition, she was VDRL and TPHA reactive Titre 1:64. Both Princess and Dorothy were confirmed HIV Positive.

For the Clinical Management team

Princess is a 3 ½ years old girl referred from the testing site and has been diagnosed as HIV+ on testing. Her mother Dorothy was HIV positive five years ago and retested positive during her last antenatal visit. Princess recently has not been feeling well and plays less with her friends in preschool, and she has had a bad cough over the past month.

History:

Presenting complaint:

Recurrent productive cough yellow sputum associated with fever for four weeks,

Weight loss in three months

Past medical history:

Birth weight 6lb 5onces in Princess Margret Hospital Dominica, non-breastfed. Immunizations are up to date except for BCG. Remained in Neonatal unit for one week due to respiratory insufficiency.

Health center: Recurrent respiratory tract infections at pediatric clinics

Medication History: Multivitamins, no known allergies

Social History: lives with mother, attends preschool, mild developmental delay at three-year assessment

Surgical Hx: Nil

Physical Examination:

She looks lethargic, thin

Vitals: Temp 100 HR 100 RR 26 BP 120/80 SPO₂ 92%

Weight: 27 lbs

+ axillary Lymph node, pale mucous membranes, anicteric

Ear, nose, and throat: Erythematous tympanic membrane, Nose Normal, erythematous pharynx, small patches on buccal mucous membranes

Chest: bi lateral chest expansion, bilateral wheeze, rales, RR 26

Cardio: S1, S2 no Murmurs, Normal JVP, BP 100/70 HR 100 + capillary refill

Abdomen: soft non-distended, N Bowel Sounds no hepatosplenomegaly

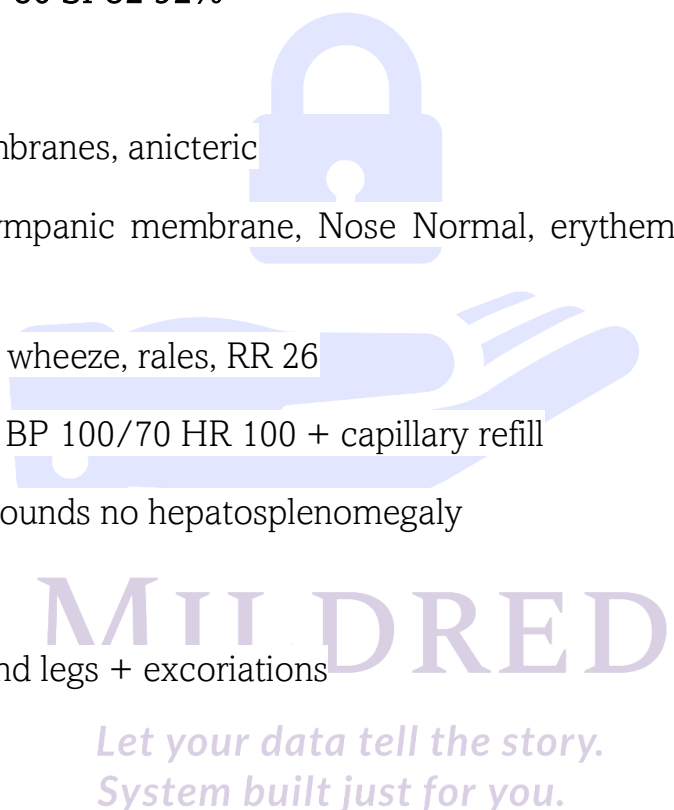
CNS: grossly intact

Skin: widespread macular rash on arms and legs + excoriations

Laboratory results (after registration into care)

Hemoglobin level of 8.1 g/dL, (12.0-15.5 grams/dL)

White blood cell (WBC) count of 12.0×10^9 (4.5 to $11.0 \times 10^9/L$).



Platelet count of 130,000/mcl (150,000 to 450,000/mcL)

Baseline Cd4 count of 330 cells/ μ L (CD4 percentage: 18%)

Liver function test: AST, ALT: Normal

Renal Function test: creatinine: normal

HIV test: rapid test reactive

Viral Load: 20,000 copies/ml

PPD test done: negative

Syphilis: RPR Non-reactive



Diagnosis

- Bronchopneumonia
- Papular urticaria
- HIV+ Stage 3

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First Clinical Encounter

- She was prescribed trimethoprim-sulfamethoxazole (TMP-SMX, cotrimoxazole)
- Multi-vitamins
- Iron and Folic Acid
- Nutritional support:
- Paracetamol 500mg po qid 1/52
- Adherence counseling
- Psychosocial support
- Hydrocortisone cream 1% applied to the affected area



Second Clinical Encounter

She returned to the clinic two weeks later with resolution of the cough and fever and no adverse effects from the medication. Her rash on her arms is beginning to clear, and she has gained 3 lbs.

Her confirmatory Eliza test was positive and was started immediately on ART with the combination of TDF 300mg PO OD +FTC 200mg PO OD+EFV 600 MG PO OD. Follow-up was given for two weeks.

Labs: CBC: Hb normal, Platelets normal, WBC normal

LFT: AST, ALT: Normal

RFT: creatinine: normal

Viral load: 20,000 copies/ml

Third Encounter:

Princess was asymptomatic and adherent to her medication with no side effects. She has become more active in school and continues to gain weight and eat well.

9.4 CENTRAL MEDICAL UNIT SCENARIO

The CMS has received the following and would need to populate the ARV medication list.

Drug	Strength	Form	Manufacturer/supplier	Expiry date	Batch number	packaging	Amount per pack	Quantity
Abacavir	20mg /ml	Oral Solution	ViiV Healthcare	08-2022	01-001	HDPE Bottle	240ml	2000
Abacavir	20 mg /ml	Oral Solution	Aurobindo Pharma Ltd	09-2023	01-002	HDPE Bottle	240 ml	2000

Abacavir (as sulphate)	60 mg	Dispersible Tablet	Cipla Ltd	01-2025	01-003	HDPE Bottle	60	500
Abacavir	300mg	Tablet	ViiV Health Care	01-2025	01-004	Blister Film Package	60	1000
Efavirenz + Lamivudine + Tenofovir	400mg + 300mg + 300mg	Table FDC	Macleods	12-2022	01-005	HDPE Container	30	7000
Emtricitabine + Tenofovir	200mg + 300mg	Tablet	Gilead Sciences	03-2022	01-006	HDPE bottle	30	1000
Lamivudine (3TC)	150 mg	Tablet	Microlabs Ltd	05-2022	AH644	Alu/PVC/dC blister /HDPE Bottle	60	2000

Dolutegravir (as Sodium Salt)	50 mg	Tablet, Film coated	Mylan Laboratories	11- 2022	NDA210237	HDPE Bottle	30	200
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Pharmacy A and B have no stock of the above-listed medications, and the CMS is to distribute these medications to the Pharmacies.

Adams James on receipt signed for pharmacy A supplies.

Grace Paul on receipt signed for pharmacy B supplies.

9.5 PHARMACY SCENARIO

Pharmacy A has received the following supplies for CMS

Drug	Strength	Form	Manufacturer/supplier	Expiry date	Batch number	packaging	Amount per pack	Quantity
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Abacavir	20mg /ml	Oral Solution	ViiV Healthcare	08- 2022	01-001	HDPE Bottle	240ml	500
Abacavir	20 mg /ml	Oral Solution	Aurobindo Pharma Ltd	09- 2023	01-002	HDPE Bottle	240 ml	500
Abacavir (as sulfate)	60 mg	Dispersible Tablet	Cipla Ltd	01- 2025	01-003	HDPE Bottle	60	200
Abacavir	300mg	Tablet	ViiV Health Care	01- 2025	01-004	Blister Film Package	60	350
Efavirenz + Lamivudine + Tenofovir	400mg + 300mg + 300mg	Table FDC	Macleods	12- 2022	01-005	HDPE Container	30	3000

Emtricitabine + Tenofovir	200mg + 300mg	Tablet	Gilead Sciences	03- 2022	01-006	HDPE bottle	30	700
Lamivudine (3TC)	150 mg	Tablet	Microlabs Ltd	05- 2022	AH644	Alu/PVC/ dC blister /HDPE Bottle	60	1500
Dolutegravir (as Sodium Salt)	50 mg	Tablet, Film coated	Mylan Laboratories	11- 2022	NDA210237	HDPE Bottle	30	100

Pharmacy B has received the following supplies for CMS

Drug	Strength	Form	Manufacturer/supplier	Expiry date	Batch number	packaging	Amount per pack	Quantity
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Abacavir	20mg /ml	Oral Solution	ViiV Healthcare	08- 2022	01-001	HDPE Bottle	240ml	1200
Abacavir	20 mg /ml	Oral Solution	Aurobindo Pharma Ltd	09- 2023	01-002	HDPE Bottle	240 ml	1500
Abacavir (as sulphate)	60 mg	Dispersible Tablet	Cipla Ltd	01- 2025	01-003	HDPE Bottle	60	200
Abacavir	300mg	Tablet	ViiV Health Care	01- 2025	01-004	Blister Film Package	60	500
Efavirenz + Lamivudine + Tenofovir	400mg + 300mg + 300mg	Table FDC	Macleods	12- 2022	01-005	HDPE Container	30	3000

Emtricitabine + Tenofovir	200mg + 300mg	Tablet	Gilead Sciences	03- 2022	01-006	HDPE bottle	30	400
Lamivudine (3TC)	150 mg	Tablet	Microlabs Ltd	05- 2022	AH644	Alu/PVC/ dC blister /HDPE Bottle	60	500
Dolutegravir (as Sodium Salt)	50 mg	Tablet, Film coated	Mylan Laboratories	11- 2022	NDA210237	HDPE Bottle	30	100

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9.6 PSYCHO-SOCIAL SUPPORT AND ADHERENCE COUNSELLING SCENARIO

Unique ID	Type of Session	Counselling Session Details
Select an existing client	Adherence Follow-up Assessment	<p>Did not miss any ARV yesterday; missed one dose 2 and 3 days ago.</p> <p>She is not on any other medication,</p> <p>The client said that she needs a Treatment assistant to help her adhere.</p> <p>She missed the meds because she was traveling and did not want anyone to know.</p> <p>She said stigma needs to be addressed. In the</p>

		counselor's opinion, she is an adherent client.
Select an existing client	Adherence Assessment Follow-up	Missed all ARVs and TB meds in the last three days; the client complained about the drug's side effects and decided to stop the meds. The patient needs a support group, adherence team support, and transportation to the clinic. In the counselor's opinion, the client is not adherent, and the adherence team must reevaluate the client's condition.
Select an existing client	Adherence Assessment Follow-up	Make up your story

Select an existing client	Adherence Assessment	Follow-up	Make up your story
Select an existing client	Adherence Assessment	Follow-up	Make up your story
Select an existing client	Adherence Assessment	Follow-up	Make up your story



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