



COVID-TB-HIV INTEGRATOR

USER GUIDE

February, 2022



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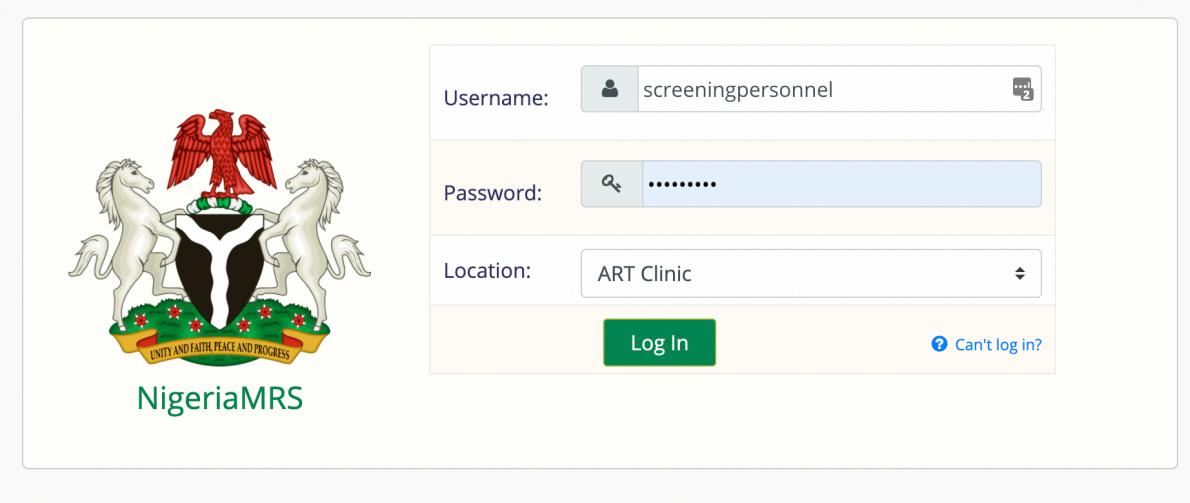
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How to Use Screening Personnel

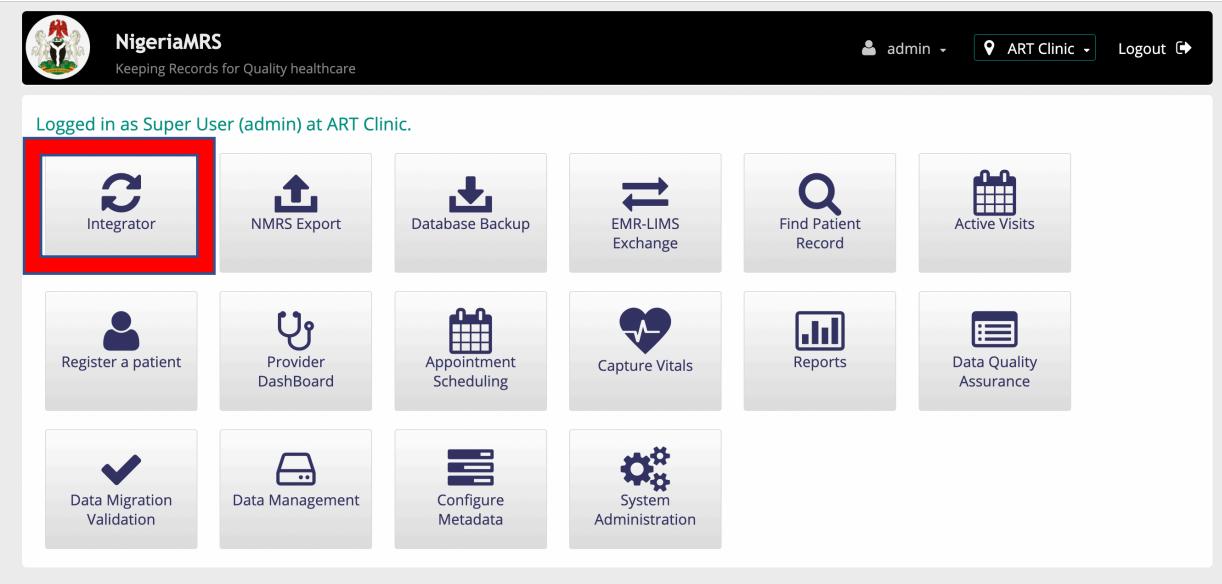
Accessing the Integrator Module

STEP 1: Login to the NMRS platform using your username and password. Endeavour to select your location (facility, workstation).



The image shows the NigeriaMRS login interface. It features the Nigerian coat of arms at the top left, followed by the text "NigeriaMRS" and "Keeping Records for Quality healthcare". The main area contains a login form with fields for "Username" (set to "screeningpersonnel"), "Password" (with a masked value), and "Location" (set to "ART Clinic"). Below the form are a "Log In" button and a "Can't log in?" link.

STEP 2: On the dashboard, there are different menus. Select 'Integrator'.



The image shows the NigeriaMRS dashboard. At the top, it displays the user information "Logged in as Super User (admin) at ART Clinic." and navigation links for "admin", "ART Clinic", and "Logout". The dashboard is organized into a grid of 12 menu items:

- Integrator** (highlighted with a red border)
- NMRS Export
- Database Backup
- EMR-LIMS Exchange
- Find Patient Record
- Active Visits
- Register a patient
- Provider Dashboard
- Appointment Scheduling
- Capture Vitals
- Reports
- Data Quality Assurance
- Data Migration Validation
- Data Management
- Configure Metadata
- System Administration



STEP 3: The integrator menu has two sub-menus: The COVID-TB-HIV Client Intake and the ‘View Booth’ sub-menus.

Click on the COVID-TB-HIV Client Intake.

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Covid-TB-HIV Integration

Covid-TB-HIV Client In-take

View Boot

Create New or Find Existing Patients

STEP 4a: For new patients, click on ‘Register New Patient’.

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Covid TB HIV - Patient Search

Find Patient(s)

Search Patient Identifier or Patient Name

Register New Patient

This will open a registration form to enable you capture relevant details of the patient (including demographics, contact information, relationships and identifiers), and create them on the NMRS database.



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Register a patient

Demographics

Name

Gender Birthdate

Contact Info

Address Phone Number

Relationships

Relatives

Patient Identifier

Hospital Number

Confirm

What's the patient's name?

Given (required) Middle Family Name (required)

STEP 4b: For existing patients, search using the search bar, with their patient identifier or patient name.

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Covid TB HIV - Patient Search

Find Patient(s)

Search Patient Identifier or Patient Name

Register New Patient

Select the specific patient that you want to attend to, to open a client intake form for them. In this case, the patient is 'John Doe'.



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ART Clinic

Logout

Covid TB HIV - Patient Search

Find Patient(s)

john

Identifier	Given	Middle	Family Name	Age	Gender	Birthdate
10619W	Ade		John	31	M	1990-09-28
1060T	JOHN		AONDONA	26	M	1996-01-01
106147	John		Doe	35	M	1987-01-01

[Register New Patient](#)

Filling the COVID-TB-HIV Integrated Client Intake Form

STEP 5: The Client intake form has different sections:

The first section captures the auto-populated patient demographics.



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Covid TB HIV Client Intake

Patient Identifier:	106147	Patient Name:	John Doe
Gender:	M	Age:	35
Phone Number:		Address:	Abuja
State:	FCT	LGA:	AMAC

The second section has the HIV risk stratification questions, with no or yes answers, weighted 0 and 1 respectively, and summing up to a risk assessment score.

Note that patient is eligible for HIV testing when risk assessment score that is greater than or equal to 1.



HIV Risk Stratification

Blood transfusion in last 3 months:	No	Unprotected sex in the last 3 months:	Yes
STI in the last 3 months:	No	Diagnosed for TB/Currently on TB treatment:	No
IV drugs user/ Shares needle or sharps:	No	Forced to have Sex/transactional sex for money/gifts:	No
STI Screening			
Complaints of genital sore(s) or swollen inguinal lymph nodes with or without pains?:	No		
Risk Assessment Score:			
1			

Similarly, the second section has the Clinical TB screening questions, with no or yes answers, weighted 0 and 1 respectively, and summing up to a risk assessment score.

Note that patient is eligible for TB testing when risk assessment score that is greater than or equal to 1.

Clinical TB Screening

Cough >= 2 weeks:	Yes	Weight Loss:	No
Fever:	Yes	Night Sweats:	Yes
Cough of any duration with haemoptysis with/out other symptoms:	Yes	Cough of any duration with unexplained weightloss & fever:	Yes
Cough of any duration with unexplained weightloss:	No	Cough of any duration with fever > 2 weeks:	Yes
Unexplained weight loss & fever > 2 weeks:	No	Cough less than 2 weeks with sputum:	Yes
Clinical TB Screening Score:			
7			

The fourth section has the clinical COVID-19 questions, with no or yes answers, weighted 0 and 1 respectively, and summing up to a risk assessment score. Additionally, there is a cell for temperature reading.

Note that patient is eligible for COVID19 testing when risk assessment score that is greater than or equal to 1 and/or if temperature reading is greater than 37.8°C.



Clinical Covid-19 Screening

Temperature Reading (enter value in degree celsius):	37.8	Health Care Worker:	Yes
Dry Cough:	Yes	Shortness of Breath in the past week:	Yes
History of Fever in the Past Week:	Yes	Muscle Aches (myalagia):	Yes
Not Vaccinated for Covid-19:	Yes	Loss of Taste:	Yes
Loss of Sense of Smell:	Yes	Sore throat:	Yes
Headache:	No	International travel or lived in area with community spread covid:	Yes
Close contact with known/suspected COVID-19 patient:	No	History of Chronic Non Communicable Disease (e.g DM, Hypertension, Chronic Lung Disease, Liver Disease):	No
Covid-19 Screening Score: 11			

The fifth section carries questions for NCD screening.

For hypertension, the question ‘Are you hypertensive?’ has three answer options - yes, no and don’t know.

If yes, the question, ‘Are you on any medication’ is displayed. However, if ‘no’ or ‘don’t know’ is selected, the follow-up question is not shown.

For latest BP, if the systolic value is greater than or equal to 140, and/or the diastolic value is greater than or equal to 95, patient is to be referred for HTN management.

Similarly, for diabetes mellitus, the question, “are you diabetic?”. has three answer options - yes, no and don’t know.

If yes, the question, ‘Are you on any medication’ is displayed. However, if ‘no’ or ‘don’t know’ is selected, the follow-up question is not shown.

For latest random blood sugar results (RBS), if the value is greater than or equal to 140, patient is to be referred for DM management.

NCD Screening

Are you Hypertensive?:	Yes	Are you on any medication for HTN?:	Yes	Latest BP:	140 / 95
*Refer for HTN Management					
Are you Diabetic?:	Yes	Are you on any medication for DM?:	Yes	Latest RBS:	140
*Refer for DM Management					



NCD Screening

Are you Hypertensive?:	No	Latest BP:	120 / 80
Are you Diabetic?:	No	Latest RBS:	130

NCD Screening

Are you Hypertensive?:	Don't know	Latest BP:	145 / 80
*Refer for HTN Management			
Are you Diabetic?:	Don't know	Latest RBS:	148
*Refer for DM Management			

Note that all fields on this form are *required.

Upon filling the above sections of the form, the eligibility is displayed.

See below scenarios for Eligibility

Scenario #1: Here, patient is eligible for all three (3) tests and have been posted to Booths 1, 2 and 3 for TB, COVID19 and HIV testing respectively.

Eligibility

TB Test:	Eligible - Boot 1	Covid-19 Test:	Eligible - Boot 2	HIV Test:	Eligible - Boot 3
Save and Send Patient to Boot					

Scenario #2: Patient is 'Not Eligible' for HIV test only.

Eligibility

TB Test:	Eligible - Boot 1	Covid-19 Test:	Eligible - Boot 2	HIV Test:	Not Eligible -
Save and Send Patient to Boot					



Upon completion of the form, save it. A “patient successfully saved and sent to booth” message appears.

CLOSE CONTACT WITH KNOWN/SUSPECTED COVID-19 patient: No Patient Successful Saved and Sent to Boot.

Disease (e.g. HIV, Disease): No

OK

Covid-19 Screening Score: 11

NCD Screening

Are you Hypertensive?: Don't know Latest BP: 145 / 80

*Refer for HTN Management

Are you Diabetic?: Don't know Latest RBS: 148

*Refer for DM Management

Eligibility

TB Test: Eligible - Boot 1 Covid-19 Test: Eligible - Boot 2 HIV Test: Not Eligible -

Save and Send Patient to Boot

View Booth for Patient Booth Posting Details

To view details of booth(s) that patients have been posted to, click on the ‘view booth’ sub-menu.

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Covid-TB-HIV Integration

Covid-TB-HIV Client In-take View Boot



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Keeping Records for Quality healthcare

admin ▾

ART Clinic ▾

Logout

View Boot

Hospital Number	Boot
HBFT-21-03052	Booth-1, Booth-3,
106147 (No Hospital Number)	Booth-1, Booth-2, Booth-3,

Booth User

Accessing the Provider Dashboard

STEP 1: To login as a booth user on the NMRS platform, type in your username, password and login, then click 'Login'.

Username: boot1user

Password:

Location: ART Clinic

Log In Can't log in?

STEP 2: Click on the 'Provider Dashboard' menu.

Logged in as boot1 user (boot1user) at ART Clinic.

Integrator NMRS Export Database Backup EMR-LIMS Exchange Find Patient Record Active Visits

Register a patient Provider Dashboard Appointment Scheduling Capture Vitals



STEP 3: The Provider Dashboard menu opens a listing of patients in queue for the specific booth.

The ‘STATUS’ column shows ‘pending’ when the patient has not been attended to, and ‘COMPLETED’ when the patient has been attended to and the patient session marked as ‘complete’.

Under the ‘ACTIONS’ Column, there are two icons. Below is the description of their functions.

Number of Patients In Queue 2							
S/N	Names	Age (Years)	PREVIOUS LOCATION	ASSIGNED PROVIDER	WAITING TIME	STATUS	ACTION
1	Doe John	35	Aboho Primary Health Centre	MandE User	17:041	PENDING	
2	MOOVE JANET	26	Aboho Primary Health Centre	MandE User	17:041	PENDING	

This enables you edit and update the client intake form for patient if necessary.

Completing a Patient Session

John Doe Male 35 year(s) (~01-Jan-1987) Edit Show Contact Info Patient ID 106147

-
- DIAGNOSES**
- None
- N-MRS DATA QUALITY CHECKS**
- None
- VITALS**
- None
- LATEST OBSERVATIONS**
- None
- HEALTH TREND SUMMARY**
- None
- ENROLL PATIENT IN PROGRAMS**
- None
- RECENT VISITS**
- 08.Feb.2022 Client intake form, Covid19 Case Investigation, IPT
14.Dec.2021 Client intake form
- FAMILY**
- None
- CONDITIONS**
-
- ALLERGIES**
-

This shows the client intake forms (for HIV, COVID and TB) that were filled for the patient and the dates.

To complete a patient session, click on this, then mark as completed. This changes the patient status above from pending to completed.



NOTE: The Integrator module works hand-in-hand with the patient queue dashboard/wall board.