





SOP: HOW TO USE LAB MANIFEST MODULE IN KENYAEMR

Last updated: 30th August 2022

TASK:	Configure KenyaEMR to receive viral load results, request a viral load from the system, send the manifest and receive VL results
OBJECTIVE:	Allow successful return of VL results to KenyaEMR
WHO:	Facility Admins, Clinicians, Data Staff
REQUIREMENTS:	Functional KenyaEMR V. 18.0.2, Internet Connectivity

SUMMARY:

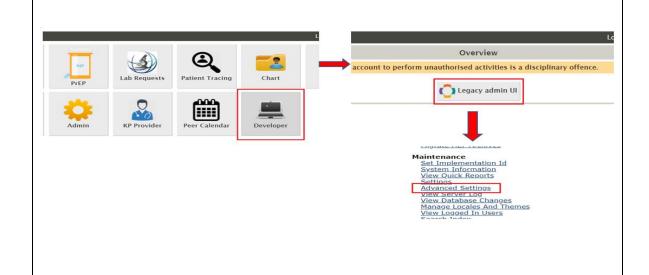
To ease data exchange with regards to Viral Load and EID results return to KenyaEMR, a number of configuration steps are available from version 18.0.2 of KenyaEMR and above. The goal is to reduce manual data entry thus less transcription errors and faster turnaround time, efficiency and effectiveness.

Screenshot Activity **CONFIGURING KENYAEMR TO RECEIVE VIRAL LOAD RESULTS – THIS IS A ONE-OFF ADMIN FUNCTION** Step 1: Log into KenyaEMR and navigate to the **Advanced Settings** Username admin • Use admin credentials to log in to Password KenyaEMR • Click home and Select "Developer" tab **Q** Login • Click on "Legacy admin UI" Forgot password? • Click on "Advanced Settings"









Step 3:

Search (Ctrl+F) for the pre-defined properties. Specify property values for either CHAI or LABWARE endpoints as shown below. and configure the URLs and the following endpoints must be set correctly.

NOTE: Please contact Palladium to obtain valid API tokens.

List of server end-points to various reference labs in Kenya

#	Lab	chai_vl_server_result_url	chai_vl_server_url
1	Kemri Nairobi	https://kemrinairobi.nascop.org/api/function	https://kemrinairobi.nascop.org/api/vl
2	Kemri Kisumu	https://kemrikisumu.nascop.org/api/function	https://kemrikisumu.nascop.org/api/vl
3	Kemri Alupe	https://kemrialupe.nascop.org/api/function	https://kemrialupe.nascop.org/api/vl
4	CPGH	https://cpgh.nascop.org/api/function	https://cpgh.nascop.org/api/vl
5	Walter Reed	https://wrpkericho.nascop.org/api/function	https://wrpkericho.nascop.org/api/vl
6	KNH	https://knh.nascop.org/api/function	https://knh.nascop.org/api/vl
7	Ampath	https://ampath.nascop.org/api/function	https://ampath.nascop.org/api/vl







		List of Endpoints to be set in KenyaEMR	
System	Property Name	Description	Default Value
	kemrorder.labsystem_identifier	The name of the lab system in use. MUST be set to either CHAI or LABWARE. Please note these are case sensitive	CHAI or LABWARE
	kemrorder.ssl_verification_enabled	Defines whether SSL verification is enabled. Should be set to false to disable SSL verification	Yes or No
General	local.viral_load_result_end_point	End point for processing viral load results from the lab (should be	http:// KenyaEMR_Server_IP :8080/ openmrs/ws/rest/v1/kemrorder/la bresults
	kemrorder.retry_period_for_incom plete_vl_result	Retry period after which updates for incomplete results can be checked. An empty value will default to 2 days	2 days
	kemrorder.viral_load_result_tat_in _days	The turnaround time for VL results in days. This is to avoid premature polling for results. An empty value will default to 4 days	10 days
	labware_eid_server_api_token	API token to authenticate communication to the LABWARE EID lab system API. Contact palladium to obtain	Request from Palladium
	labware_eid_server_result_url	The URL for fetching LABWARE EID result	Refer to step 3 for specific lab URL
LABWARE	labware_eid_server_url	The URL for pushing requests to the LABWARE EID server	Refer to step 3 for specific lab URL
LADWARE	labware_vl_server_api_token	API token to authenticate communication to the LABWARE VL lab system API	Refer to step 3 for specific lab URL
	labware_vl_server_result_url	The URL for fetching LABWARE VL result	Refer to step 3 for specific lab URL
	labware_vl_server_url	The URL for pushing requests to the LABWARE VL server	Refer to step 3 for specific lab URL
	chai_eid_server_api_token	API token to authenticate communication to the CHAI EID lab system API. Contact Palladium to obtain	Request from Palladium
	chai_eid_server_result_url	The URL for fetching CHAI EID result	Refer to step 3 for specific lab URL
CHAI	chai_eid_server_url	The URL for pushing requests to the CHAI EID server	Refer to step 3 for specific lab URL
	chai_vl_server_api_token	API token to authenticate communication to the CHAI VL lab system API	Refer to step 3 for specific lab URL
	chai_vl_server_result_url	The URL for fetching CHAI VL result	Refer to step 3 for specific lab URL
	chai_vl_server_url	The URL for pushing requests to the CHAI VL server	Refer to step 3 for specific lab URL

NB: If **kemrdorder.labsystem.identifer** property is not specified, an error message will be displayed and you will not be able to create and submit any manifest since each lab identifier expect a different set of payload.

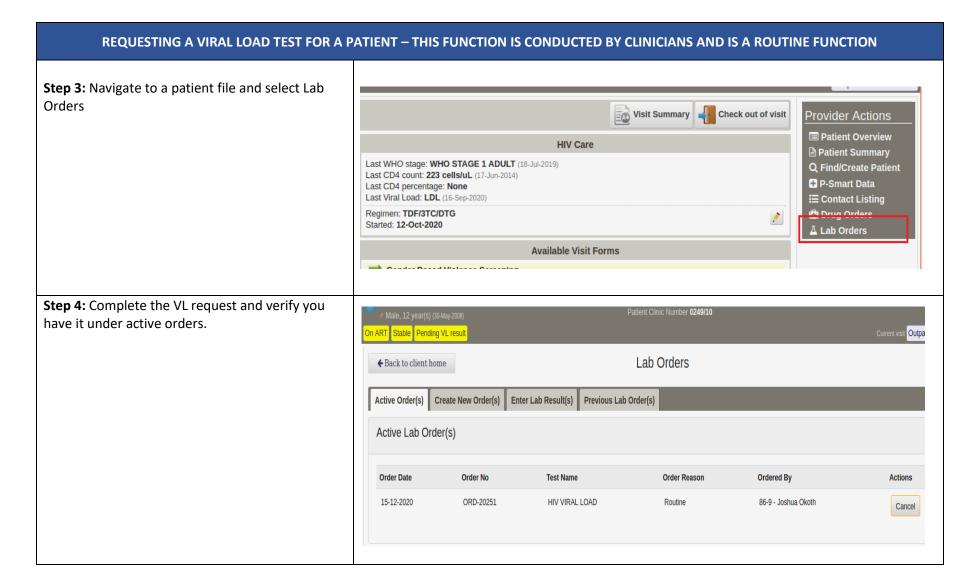
IMPORTANT: Check to ensure the following schedulers are started and that the execution intervals are correctly set.

- Push Lab Requests to Lab
- Pull Viral Load results













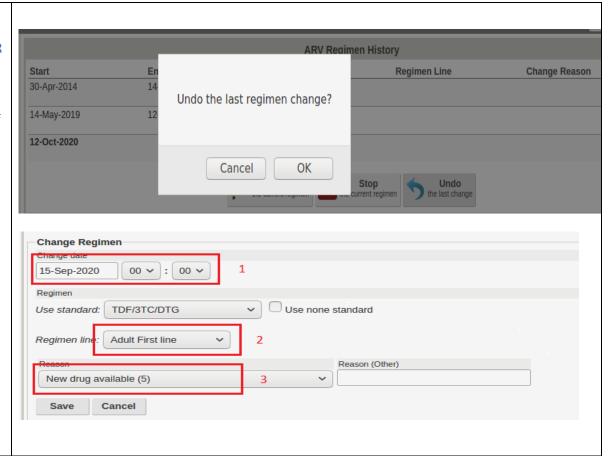


VERIFYING AND/OR EDITING REGIMEN LINE –
THIS IS A FUNCTION CONDUCTED ONLY ONCE
FOR EACH PATIENT AND CAN BE DONE BY EITHER
A CLINICIAN OR DATA STAFF

Step 5: Navigate to the clients ARV Regimen History and Ensure the client has a regimen line. If none is available, TAKE NOTE of the current regimen then:

• Undo the Last Regimen Change

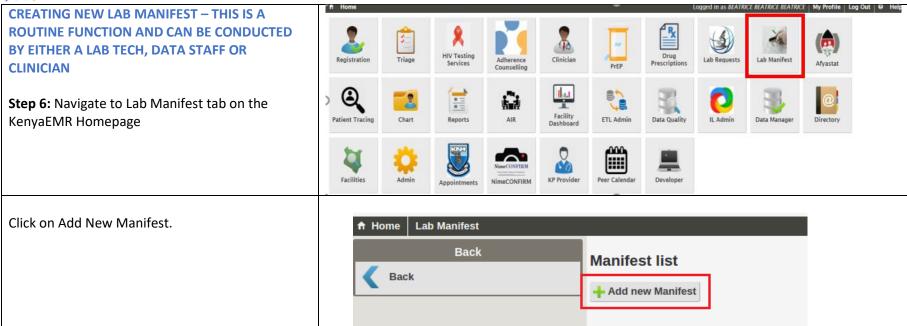
 Add regimen and be sure to input CORRECT START DATE, select correct regimen line and save.

















Step 7: Complete the details of the New Manifest taking into special consideration the fields:

- Date Range This is the range for which you will fill Viral Load samples have been collected and for which you require results to be returned.
- Manifest Type This should be set to either Viral Load or IED depending on the type of samples expected in the manifest.
- Manifest Status The status should be set to "Draft" during the period of adding samples to the manifest. Other options are:

Ready to Send: Set when all valid samples have been added and ready to be submitted.

On Hold: This is set if for some reason the manifest should not be submitted yet.

• Once done, click **Create Lab Manifest** to save the manifest.

		Edit Lab Manifest
Manifest date range		
Start Date		
Manifest type	_	
Type * Viral Load >		
Dispatch Details		
Dispatch Date	Courier Name	Person handed to
01-Apr-2022		
Address		
County	Sub-County	
Muranga ~	gatanga 🗸	
Facility Email	Facility Phone contact	
hhjjkjjk	0713322215	
Clinician Name	Clinician Phone contact	
jane	0710123456	
Lab person Phone number		
0710121212		
Manifest status		
Status *		







Step 8: Add patient records to the Manifest. To do	Mani	fest li	ist									
this you will need to navigate to the Manifest List,	+ Add	new Ma	nifest									
Click view and Add Patients.	Page	1										
	Start Date	End Date	Courier	County/Sub- county	Facility Email	Facility Phone	Clinician name	Clinician contact	Lab person contact	Status	Dispatch	Action
	01-Jul- 2021	13-Jul- 2021	Ambulance	Kisumu/Central	email@facility.com	n 0711222111	His name	0799111222	0790111000	Draft Total samples	13-Jul- 2021	View Edit
Ensure to add all patients for whom samples are				13028043	25	04-Dec-2020)	Add to n	nanifest			
ready for dispatch.				13028069	72	08-Dec-2020)	Add to n	nanifest			
				13028027	22	02-Dec-2020)	Add to n	nanifest			
				13028034	75	15-Dec-2020)	Add to n	nanifest			
				13028037	04	15-Dec-2020)	Add to n	nanifest			
				13028045	74	04-Dec-2020)	Add to n	nanifest			
				13028070	96	09-Dec-2020)	Add to n	nanifest			
				13028003	46	02-Dec-2020)	Add to n	nanifest			
				16870079	93	08-Dec-2020)	Add to n	nanifest			

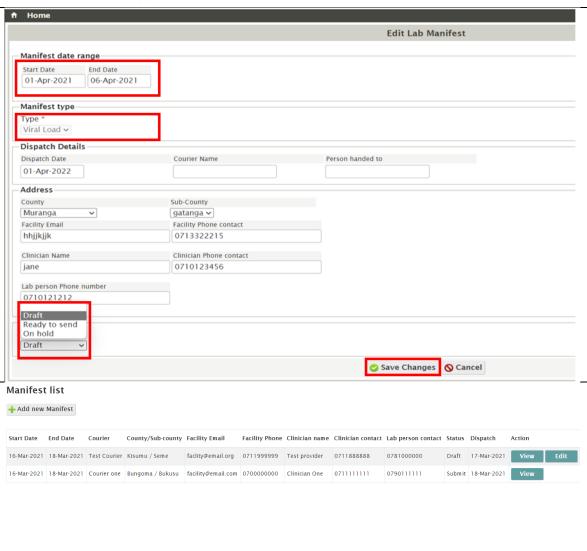






Step 9: Sending the manifest requires changing the status of the manifest to "Ready to send"

- Date Range This is the range for which you will Viral Load samples have been collected and for which you require results to be returned.
- Manifest Status The status should be set to "Ready to send"
- Save Changes



VIEWING RESULTS

Step 10: Navigate to the Manifest list and click on view. If results are back the manifest status should read "Received Results"

Step 11: View the Status of the individual samples noting the Status and Result columns







Start Date	End I	Date	Stat	us	Dis	spatch Date	•
08-Dec-2020	10-De	ec-2020	Rece	eived result	10	-Dec-2020	
Print Manifest							
	•						
Samples !:	n tha ma	foct					
samples II	n the mani	rest					
						n II	
Patient Name	CCC Number	Sample type	Date requested	Status	Result	Result Date	
Patient Name christine mwamisi mbithe	2111700002	•		Status Pending	Result Not ready		Remove Print Label
christine mwamisi		type Frozen	requested				

END