

BLIS – Kenya

Technologists Guide

Rev 2.0

A joint initiative of C4G @ Georgia Tech, the CDC,
@iLabAfrica – Strathmore University , Association of Public
Health Laboratories (APHL) and participating countries

2015



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1.0 Getting started with BLIS

To start the Basic Laboratory Information System, you must click on the bookmark saved on the web browser e.g. Google Chrome or Mozilla Firefox. You will then see a page requesting login information. You must then enter your credentials to proceed.

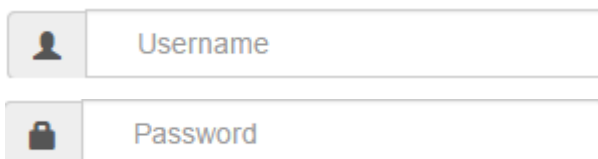


The image shows the login page for the Bungoma District Hospital Laboratory. At the top is the coat of arms of Kenya. Below it, the text "Bungoma District Hospital Laboratory" is centered. There are two input fields: "Username" with a person icon and "Password" with a lock icon. A blue "Login" button is below the fields. At the bottom, there is a link "User Guide in progress" and a paragraph: "kBLIS - a port of the Basic Laboratory Information System (BLIS) to Laravel by iLabAfrica. BLIS was originally developed by C4G."

1.1 Signing into BLIS

1. Fill in your username and password then click

Login



The image shows two input fields: "Username" with a person icon and "Password" with a lock icon.

2. If you try to sign in while either of the username or password fields is blank, you will

get errors as displayed below

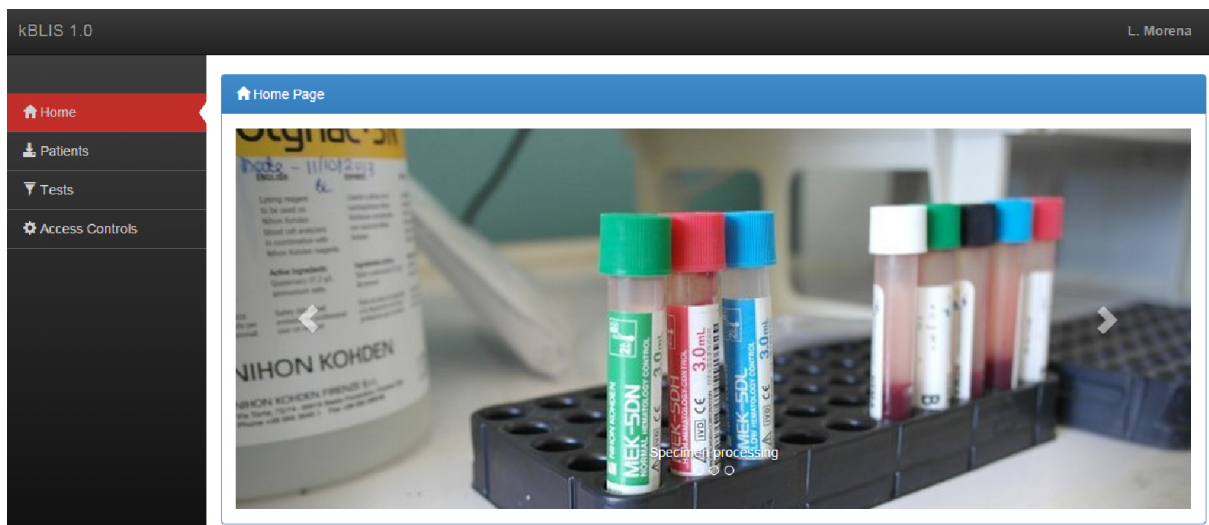
- The 'Username' field is required.
- The 'Password' field is required.

3. If you try to sign in with unmatching username or password, the following errors shall be displayed.

Username and/or password invalid.

If you have forgotten your password, kindly contact the lab-in-charge for help.

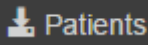
On successful sign-in, you should see such a page as this.



2.0 Patient listing and registration

This section allows for patient registration in the case of referred patients or those not registered in the hospital EMR system. A listing of all the patients available is shown as captured below.



2.1 Listing patients

1. From the homepage, click  **Patients** tab on the navigation menu for the patients list portlet to be shown

Home / Patients

List Patients		New Patient			
Patient Number	Name	Email	Gender	Date of Birth	Actions
1			Male	2006-06-15	View Edit Delete
2			Female	1949-06-21	View Edit Delete
3			Male	2010-10-13	View Edit Delete
4			Female	1984-08-10	View Edit Delete
5			Female	1995-10-05	View Edit Delete
6			Female	1990-05-04	View Edit Delete
7			Male	1967-10-09	View Edit Delete
8			Female	1994-06-15	View Edit Delete
9			Male	2012-12-22	View Edit Delete
10			Male	1985-12-18	View Edit Delete

2.2 Registering a patient

1. To register a patient, click on the  **New Patient** button at the top of the blue portlet.
2. After completing the form, click the  **Save** button at the bottom of the form.
Using the **Save** button will instantly save the details to the system.

Create Patient

Patient Number	<input type="text"/>
Names	<input type="text"/>
Date of Birth	<input type="text"/>
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female
Physical Address	<input type="text"/>
Phone Number	<input type="text"/>
Email Address	<input type="text"/>

Save

2.3 Viewing a patient's details

- To see details of a particular patient, click the View button on the **Actions** column with the corresponding row of the patient listed to see the details as shown below.

Patient Details
 Edit



Name	New Patient
Patient Number	3
External Patient Number	175531
Date of Birth	2010-10-13
Gender	Male
Physical Address	
Phone Number	
Email Address	
Registration Date	2014-02-20 14:58:33

- To get back to the patients list, click on **Patients** hyperlink on the breadcrumb.

Home / Patients / Patient Details

2.4 Editing a patient's details

- On the patients list, click on the Edit button
- After making your modifications, click the Save button to push the changes to the system.


3. An alternative way to edit patient details is to use the  button on the patients list then click on the  button once the details have been displayed.

3.0 Laboratory tests

Different medical systems have distinct stages and processes of conducting medical test. This document will track the life cycle of a medical test on-board iBLIS.

After receiving test request from a patient or other embedded systems the immediate step is to book for the test via the laboratory system. The initial stage of capturing the test details is most important stage. In essence, accurate data capturing will streamline the logical steps to ensure that what you test is what you meant to test, and that the final test report meets the client's needs and expectations.

3.1 Listing ordered tests


1. Click the  tab on the navigation menu to load a list of all ordered tests.

3.2 Searching for a lab request

Below is the first interface during the testing process.

All From To

Ordered Tests List <input data-bbox="427 1093 518 1115" type="button" value="New Test"/>							
Date Ordered	Patient Number	Visit Number	Patient name	Test	Visit Type	Test Status	
09-12-2014 13:11				BS for mps	In-Patient	Test Pending Specimen Not Collected	<input type="button" value="View"/> <input type="button" value="Accept"/>
09-12-2014 13:10				BS for mps	In-Patient	Test Pending Specimen Not Collected	<input type="button" value="View"/> <input type="button" value="Accept"/>
09-12-2014 13:09				Pregnancy test	In-Patient	Test Pending Specimen Not Collected	<input type="button" value="View"/> <input type="button" value="Accept"/>
09-12-2014 13:08				Full Haemogram	Out-Patient	Test Pending Specimen Not Collected	<input type="button" value="View"/> <input type="button" value="Accept"/>
09-12-2014 13:08				BS for mps	Out-Patient	Test Pending Specimen Not Collected	<input type="button" value="View"/> <input type="button" value="Accept"/>

1. There are several search fields on UI. The first one allow you to filter the test based on the test type, patient number, name, visit number and type, the second one will allow you to filter using test status and third one will use date as the filtering criteria.
2. Once you have your search parameters in place, click the  button


3.3 Booking a test

For referrals to the lab and tests that do not originate from the hospital EMR system, lab requests have to be created at the lab.

The iBLIS system can accept and initiate test requests through different approaches.

i). By use of the Tests Link

The step below shows how ordering a test from the default tests page can be achieved.

1. Click the  button to launch the test order form.
2. Select the desired patient by typing the patient Id or Name or by clicking the GO button to list the available patients.

Create New Test

First select a patient below


Enter patient name or ID

Go!

	ID	Names
<input type="radio"/>	1002	Jam Felicia
<input type="radio"/>	1003	Emma Wallace
<input checked="" type="radio"/>	1004	Jack Tee
<input type="radio"/>	1005	Hu Jintao
<input type="radio"/>	2150	Lance Opiyo

Close

Next

3. Click the  button to launch the new test order form.
4. In the New test page, input the visit type, the requesting physician and from the listed tests, select the desired test(s).

New Test

Patient Details


Patient Number 2014 Name Mathil Sajidah Age 0 years 0 months Gender Male

Visit Type Out Patient

Requesting Physician

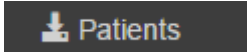

Select Test(s)

<input type="checkbox"/> Grams stain	<input type="checkbox"/> ZN stain	<input type="checkbox"/> urine chemistry	<input type="checkbox"/> SERUM AMYLASE
<input type="checkbox"/> calcium	<input type="checkbox"/> CALCIUM	<input type="checkbox"/> URIC ACID	<input type="checkbox"/> calcium
<input type="checkbox"/> Glucose	<input type="checkbox"/> Protein	<input type="checkbox"/> Ascitic tap for biochemistry	<input type="checkbox"/> Glucose
<input type="checkbox"/> Protein	<input type="checkbox"/> CSF for biochemistry	<input type="checkbox"/> PSA	<input type="checkbox"/> Total
<input type="checkbox"/> Albumin	<input type="checkbox"/> Alkaline Phosphate	<input type="checkbox"/> ASAT	<input type="checkbox"/> SGOT
<input type="checkbox"/> ALAT	<input type="checkbox"/> Direct	<input type="checkbox"/> Total Proteins	<input type="checkbox"/> Billirubin
<input type="checkbox"/> LFTS	<input type="checkbox"/> Chloride	<input type="checkbox"/> Potassium	<input type="checkbox"/> Sodium
<input type="checkbox"/> Electrolytes	<input type="checkbox"/> Creatinine	<input type="checkbox"/> Urea	<input type="checkbox"/> RFTS
<input type="checkbox"/> TFT	<input type="checkbox"/> GXM	<input type="checkbox"/> Indirect COOMBS test	<input type="checkbox"/> Direct COOMBS test

- Click the  button to save the details.

ii). By use of the patient's details page

A test can be booked directly from the patient details page. This page can be accessed after selecting the patient at subject of the tests.

- Click on the  link on the side bar navigation menu on the left of the screen.
- Identify the desired patient and click the corresponding  button to load the Patient Details page.

Patient Details
Edit
New Test

Name Jam Felicia

Patient Number 1002

External Patient Number

Date of Birth 2000-01-01

Gender Female

Physical Address

Phone Number

Email Address fj@x.com


Registration Date 2014-11-25 10:06:29

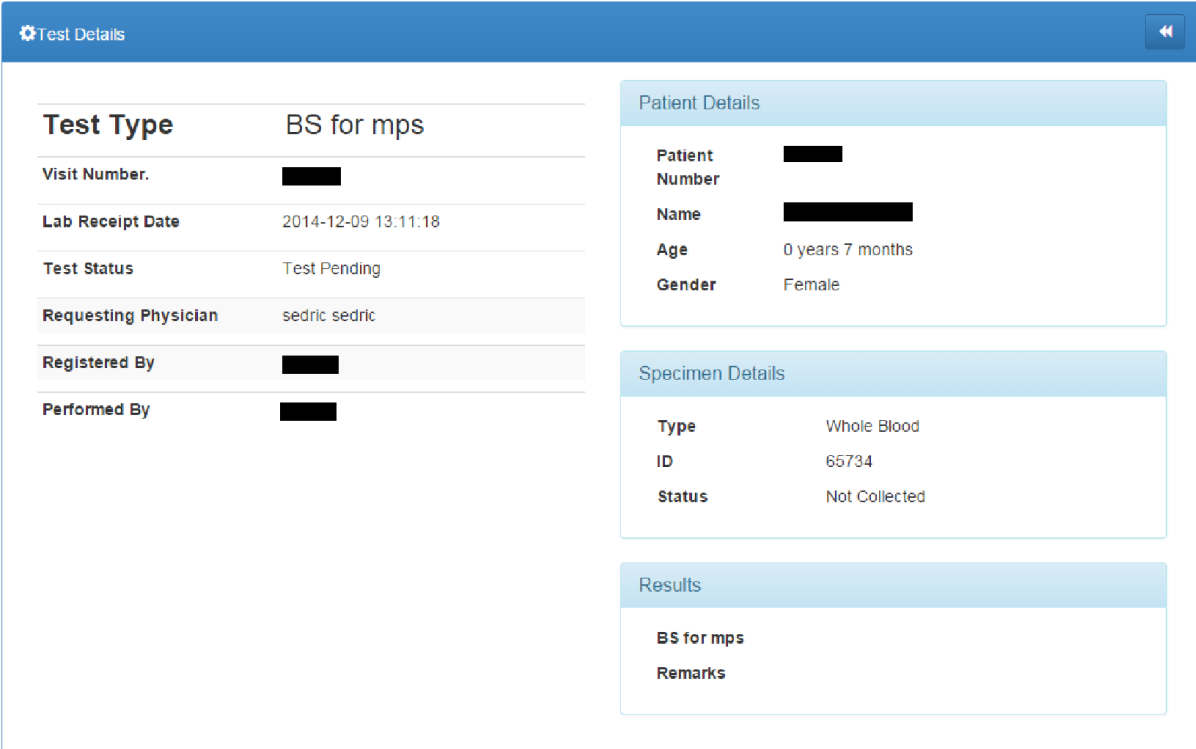
3. Click the  button.

iii). By use of an external system

A test can also be booked via an external system. BLIS will have a module through which a test order can be invoked by multiple external systems. This will only happen if the systems can integrate and map fully with BLIS. External system configuration and integration with BLIS will depend on the available systems in any given hospital. All the embedded systems will fully be tested to ensure a smooth running of BLIS and the particular system at stake before inter-dependability can be authorized.

3.4 Viewing a lab test request

1. On the ordered list of tests, click on the  button on the corresponding row of the request.



The screenshot displays the 'Test Details' portlet. On the left, a table lists test-related information: Test Type (BS for mps), Visit Number (redacted), Lab Receipt Date (2014-12-09 13:11:18), Test Status (Test Pending), Requesting Physician (sedric sedric), Registered By (redacted), and Performed By (redacted). On the right, there are three sections: 'Patient Details' (Patient Number: redacted, Name: redacted, Age: 0 years 7 months, Gender: Female), 'Specimen Details' (Type: Whole Blood, ID: 65734, Status: Not Collected), and 'Results' (BS for mps, Remarks).

Test Details	
Test Type	BS for mps
Visit Number.	[Redacted]
Lab Receipt Date	2014-12-09 13:11:18
Test Status	Test Pending
Requesting Physician	sedric sedric
Registered By	[Redacted]
Performed By	[Redacted]

Patient Details


Patient Number	[Redacted]
Name	[Redacted]
Age	0 years 7 months
Gender	Female

Specimen Details

Type	Whole Blood
ID	65734
Status	Not Collected

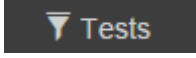





Results

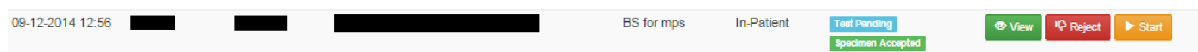
BS for mps
Remarks

2. To get back to the test list, click the  icon on the top right corner of the 'Test Details' portlet.

3.5 Accepting a specimen





Before the testing process is started the acceptance of the specimen must be registered in the iBLIS system. This will be achieved through;

1. Click on the  link on the side bar navigation menu on the left of the screen.
2. Select the test of interest and check where Test Status is .
3. Click on the  button to acknowledge the specimen.
4. This will change the specimen status to  and the button to  the test will show plus a  button in case the specimen is deemed unsuitable.



3.6 Rejecting a specimen

Specimen can be rejected on several levels in iBLIS. The first level is during specimen collection. Mistakes can be made hence making the specimen unsuitable. On other occasions the specimen samples can be damaged or contaminated during testing. If the collected specimen cannot progress to testing and actualize the test due to various reasons it can then be rejected through;

1. Click on the  link on the side bar navigation menu on the left of the screen.
2. Select the test of interest and check where Test Status is .
3. Click on the  button to reject the specimen.
4. Fill in the form appropriately then click the  button at the bottom to complete the rejection.

Reject Specimen

Test Type
BS for mps

Specimen Type
Whole Blood

Specimen ID

Reason

Person Talked To

Reject

5. You will be notified of any errors during rejection like

- The 'Reason' field is required.
- The 'Person Talked To' field is required.

Or successful rejection

The specimen was rejected!

3.7 Referring a Test

In some cases the hospital may not have the capability to actualize some of tests. This will result to the test being referred to another medical institution for testing. The accepted specimen can be referred via;

1. Click on the Tests link on the side bar navigation menu on the left of the screen.
2. Select the test of interest and check where Test Status is Test Pending and Specimen Accepted.
3. Click on the Refer sample button.
4. Fill in the form

Referrals

Specimen Type

Whole Blood

Test Type

BS for mps

Refer

☒ In

☐ Out

Facility

KEMRI ALUPE

Person

Contacts

Refer

5. Click the  button

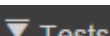




NB: The process is similar for both referred-in tests and those referred out. You just have to

Refer ☒ In ☐ Out

indicate whether it is a refer In or out

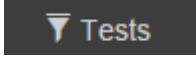

3.8 Starting a Test

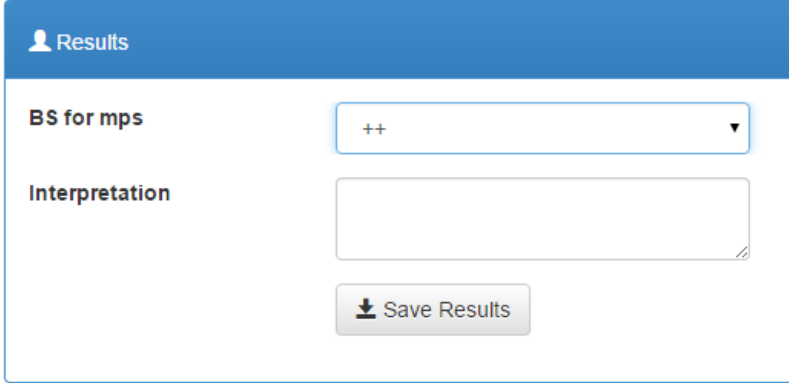
A test can only be started if the collected specimen is suitable. Once the specimen is verified and allowed to proceed to testing;

1. Click on the  Tests link.
2. Select the test of interest and check where Test Status is  and .
3. Click on the  button to commence the testing process. The test status changes to .

3.9 Entering test results



After a successful test, the results are then recorded into iBLIS. The page can be accessed via;

1. Click on the  link.
2. Select the test that whose results are ready.
3. Click on the  button to feed the results into the system.
4. Fill in the results form e.g.



5. Click the  button to save the results to the system


3.10 Full Haemogram results on Celltac F machine

1. Click the  button on the corresponding test on the list of tests.
2. On the Celltac F machine; press Print Results button to send the results from the Celltac F machine to the computer.
3. Click the  button on the results panel to autofill the form with the test results as shown below.

Results

Fetch




Baso#	0.0	%
Eos#	0.6	
Mon#	0.8	
Lym#	2.2	
Neu#	1.6L	
WBC	5.2	$\times 10^3/\mu\text{L}$
RBC	4.64*	$\times 10^6/\mu\text{L}$
HB	11.8	g/dL
HCT	39.5	%
MCV	85.1	fL
MCH	25.4L	pg
MCHC	29.9L	g/dL
RDW	14.5	%
PLATELET COUNT	288*	$\times 10^3/\mu\text{L}$
PCT	0.20	%
PDW	18.1H	%
Interpretation		

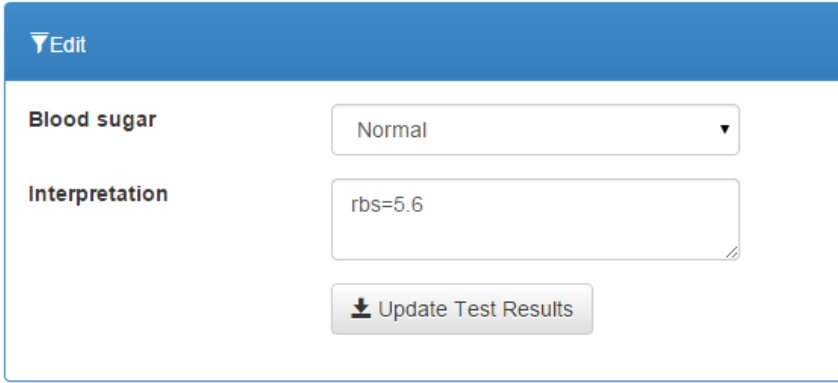
 Save Results

4. Click the  Save Results button to save the results to the system

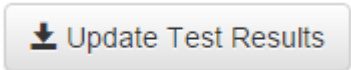
3.11 Editing Test Results

If the test results were entered incorrectly they can be edited. This can only be done before test verification. Follow the steps below to edit test results;

1. Click on the  link.
2. Select the test whose results are to be edited and test status is .
3. Click on the  button to make the changes.
4. Make the necessary modifications on the form presented such as



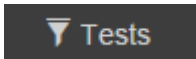

The screenshot shows a form titled 'Edit' with a blue header. It contains two input fields: 'Blood sugar' with a dropdown menu showing 'Normal', and 'Interpretation' with a text box containing 'rbs=5.6'. Below these fields is a button labeled 'Update Test Results' with a download icon.


5. Click the  button to save the changes.

3.12 Verifying test results

A test can only be verified if all the above processes and conditions are correctly actualized.

The verification will be done by an experienced medical personnel. The results will be compared against preset criteria designed for verifying the particular test;

1. Click on the  link.
2. Select the test whose results are to be verified and test status is .

3. Click on the  button to proceed to the test details page.

[Test Details](#) [Edit Test Results](#) [Verify](#)

Test Type

Blood sugar

Visit Number.

██████

Lab Receipt Date

2014-12-09 12:12:27

Test Status

Test Completed

Requesting Physician

██████████

Registered By

██████

Performed By

██████

Turnaround Time

30 Seconds

Patient Details

Patient Number

██████

Name

████████████████████

Age

56 years 10 months

Gender

Female

Specimen Details

Type

Whole Blood

ID

██████

Status

Accepted


Results

Blood sugar

Normal

Remarks

rbs=5.6

4. Click on the  button on the test details page to commit the verification.

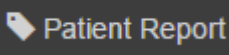
4.0 Reports


1. Click on the  link to open the reports module.






4.1 Daily Reports



The Patient Report and Daily Log should be run every day.

4.1.1 Patient report

1. Click the  link on the Reports sub-menu to open the patients reports listing

 Patient Report

Patient ID	Patient Number	Full Name	Gender	Age	Actions
1			M	8 years 7 months	 View Report
2			F	65 years 7 months	 View Report
3			M	4 years 3 months	 View Report
4			F	30 years 5 months	 View Report
5			F	19 years 3 months	 View Report

2. Search for the patient by Patient Name, Patient Number, or Patient ID.
3. Click the  button to start search.
4. Select the patient you want from the list if more than one patient matches your search criteria.
5. Click  to see all data for that patient.

You can edit the report to show activity within a date range, include pending tests for which results are not available, set printing information, or export to Word using the controls at the top of the page.

☐ Include Pending Tests

From

2015-01-23

To

2015-01-23

 View

Export to Word

Patient Report



BUNGOMA DISTRICT HOSPITAL LABORATORY
BUNGOMA TOWN, HOSPITAL ROAD
OPPOSITE POLICE LINE/DISTRICT HEADQUARTERS
P.O. BOX 14,
BUNGOMA TOWN.
Phone: +254 055-30401 Ext 203/208



LABORATORY REPORT

Patient Report For 23-01-2015

Patient name	██████████	Gender	Female
Patient ID	■	Age	65 years 7 months
Patient Number	██████	Requesting Facility/Department	Bungoma District Hospital Laboratory

Specimen


Type	Tests	Lab Sections	Status	Collected By/Rejected by	Date Checked
No records found.					

Results

Test Type	Test:Result	Remarks	Performed By	Results Entry Date	Date Tested	Verified By	Date Verified
No records found.							

6. Click  View to filter the report and  to export to word document.

4.1.2 Daily log

1. Click the  Daily Log sub-menu under reports to view daily logs.
2. Set the date range to reflect the log to print. You can run a report of the day's activity by patients seen (by clicking Patient Records), or by tests run (by clicking Test Records) or rejected specimens (by clicking Rejected Specimen Records).

From

2015-01-23

To

2015-01-23

 View

Export to Word

☒ Test Records

☐ Patient Records

☐ Rejected Specimen Records

☐ Pending Tests Only

☐ All Tests

Lab Sections

Select Lab Section ▼

Test Type

Select Test Type ▼

4.1.2.1 Test Records

You can choose to run a log for one lab section or for one type of test, for all tests or pending tests only. The default settings are test records, all sections, and all tests. The report loads with Export controls at the top of the page.

From To [View](#) [Export to Word](#)

☒ Test Records
 ☐ Patient Records
 ☐ Rejected Specimen Records
 ☐ Pending Tests Only
 ☐ All Tests

Lab Sections
 Test Type

Daily Log - Test Records

BUNGOMA DISTRICT HOSPITAL LABORATORY
 BUNGOMA TOWN, HOSPITAL ROAD
 OPPOSITE POLICE LINE/DISTRICT HEADQUARTERS
 P.O. BOX 14,
 BUNGOMA TOWN.
 Phone: +254 055-30401 Ext 203/208

LABORATORY REPORT

Test Records - Complete Tests For 23-01-2015

Specimen ID	Specimen	Lab Receipt Date	Tests	Performed By	Results	Remarks	Results Entry Date	Verified By
No records found.								

4.1.2.2 Patient records

1. Click on the ☒ **Patient Records** checkbox
2. Apply the filter parameters, date ranges in this case

From To

3. Click the [View](#) button to load the report

4. Click the [Show/Hide Summary](#) button to toggle the summary

Daily Log - Patient Records

Your filter did not match any records.

BUNGOMA DISTRICT HOSPITAL LABORATORY
 BUNGOMA TOWN, HOSPITAL ROAD
 OPPOSITE POLICE LINE/DISTRICT HEADQUARTERS
 P.O. BOX 14,
 BUNGOMA TOWN.
 Phone: +254 055-30401 Ext 203/208

LABORATORY REPORT

Daily visits For 23-01-2015

Summary		
Total Visits	Male	Female
0	0	0

Patient Number	Patient name	Age	Gender	Specimen ID	Specimen Type	Tests
No records found.						

- Click the **Export to Word** button to export the report to word document for further processing

4.1.2.3 Rejected Specimen records

- Click the ☒ **Rejected Specimen Records** checkbox then **View** button to load the report

You can choose to run a log for one lab section or for one type of test. The default settings are test records, all sections, and all tests. The report loads with Export controls at the top of the page

From
2015-01-23

To
2015-01-23

View

☐ Test Records
☐ Patient Records
☒ Rejected Specimen Records


Export to Word

Lab Sections
Select Lab Section


Test Types
Select Test Type

Daily Log - Rejected Specimen Records

Your filter did not match any records.



BUNGOMA DISTRICT HOSPITAL LABORATORY
BUNGOMA TOWN, HOSPITAL ROAD
OPPOSITE POLICE LINE/DISTRICT HEADQUARTERS
P.O. BOX 14,
BUNGOMA TOWN.
Phone: +254 055-30401 Ext 203/208



LABORATORY REPORT

Rejected Specimen Records For 23-01-2015

Specimen ID	Specimen	Lab Receipt Date	Tests	Lab Section Lab Sections	Rejection Reason	Person Talked To	Date Rejected
██████	Whole Blood	2014-12-09 12:56:03	BS for mps	PARASITOLOGY	Haemolysis	██████	2015-01-23 12:21:46

4.2 Aggregate reports

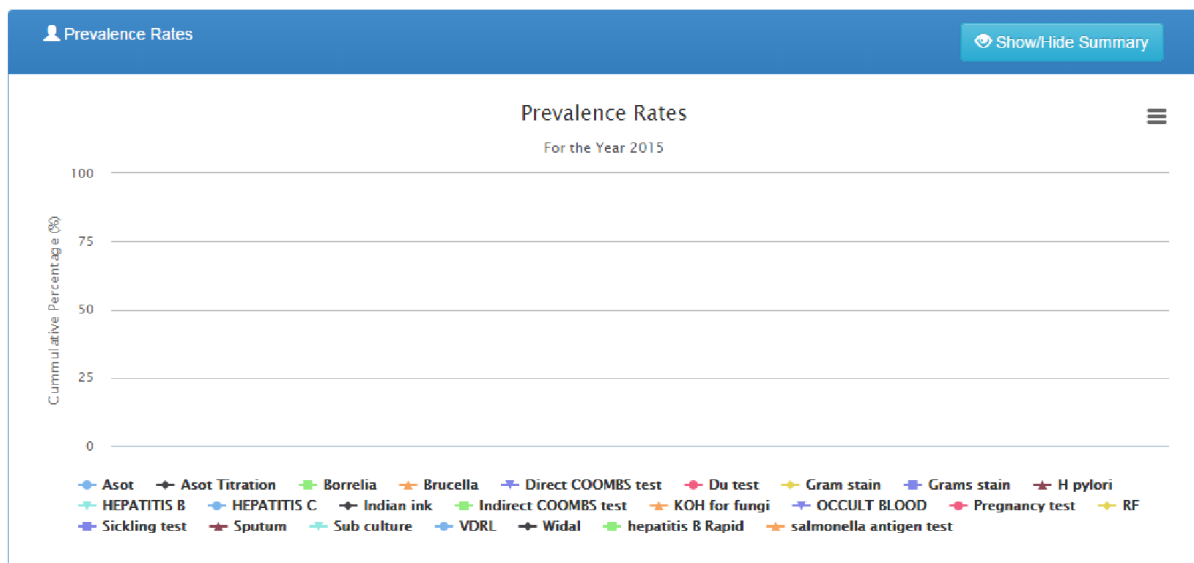
These are accrued summaries over a period of time.

4.2.1 Prevalence Rates

Gives the prevalence of a particular laboratory test result based on the number of tests done and the results.

- Click the **Prevalence Rates** sub-menu to load the report.

By default, the report loads prevalence rates for the current year

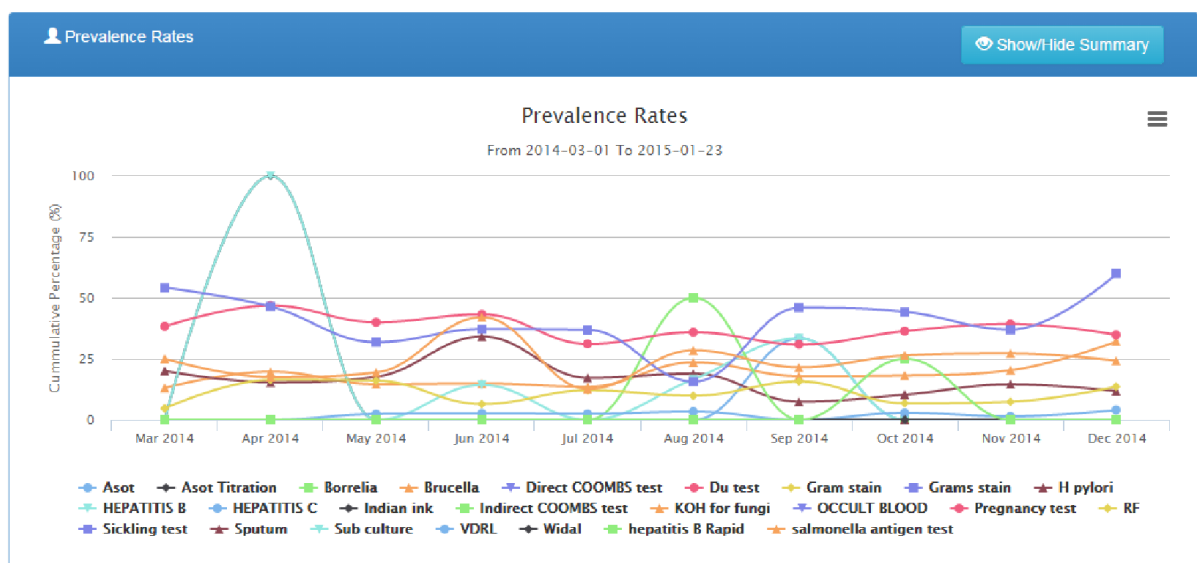


- Set a date range to view infection graph and prevalence rates. You can also specify the lab section.

From To Test Type

- Click the button to load the report with the filters you defined e.g.

From To Test Type



- You can view a numeric summary of the prevalence rates by clicking the



button to reveal the numeric data.

Test Type	Total Specimen	Positive	Negative	Cummulative Percentage (%)
Indirect COOMBS test	10	1	9	10.00
Direct COOMBS test	17	0	17	0.00
Du test	1	0	1	0.00
Sickling test	375	140	235	37.33
CSF for microbiology	37	3	34	8.11
Sputum	1	0	1	0.00
CSF	4	1	3	25.00
salmonella antigen test	2067	497	1570	24.04
OCCULT BLOOD	1	0	1	0.00

- You can click on a test on the legend section to hide its graph

4.2.2 Counts reports

Generates a report for a particular time period of the number of tests and specimens both grouped and ungrouped.

- Click the sub-menu to launch the counts reports options

4.2.2.1 Test counts (Ungrouped)

Shows for each test, the number of complete vs pending tests overtime.

From

2015-01-01

To

2015-01-23


View

☒ Test Counts (Ungrouped)
 ☐ Test Counts (Grouped)
 ☐ Specimen Counts (Ungrouped)
 ☐ Specimen Counts (Grouped)

Counts


Test Counts (Ungrouped) - From 01-01-2015 To 23-01-2015

Test Types	Complete Tests	Pending Tests
Grams stain	0	0
ZN stain	0	0
urine chemistry	0	0
SERUM AMYLASE	0	0

The report can be filtered by specifying date ranges then clicking the  button to load the report with the applied filters.

4.2.2.2 Test counts (Grouped)


This is a report that groups tests according to various parameters such as lab section, gender, age ranges then counts the numbers for each while showing the total tests run.

Click the ☒ **Test Counts (Grouped)** checkbox then  to load the report

Counts						
Test Counts (Grouped) - From 2015-01-01 To 2015-01-23						
SEROLOGY						
Test Types	Gender	Age Ranges			M/F Total	Total Tests
		0-5	5-15	15-120		
PBF	Male	0	0	0	0	0
	Female	0	0	0	0	
HEPATITIS C	Male	0	0	0	0	0
	Female	0	0	0	0	
HEPATITIS B	Male	0	0	0	0	0
	Female	0	0	0	0	
Asot Titration	Male	0	0	0	0	0
	Female	0	0	0	0	
Widal Titration	Male	0	0	0	0	0
	Female	0	0	0	0	

4.2.2.3 Specimen counts (Ungrpuped)

It is a count for accepted vs rejected specimen

Click the ☒ **Specimen Counts (Ungrouped)** then  to load the report

Counts			
Specimen Counts (Ungrouped) - From 2015-01-01 To 2015-01-23			
Specimen Types	Accepted	Rejected	Total Specimen
Whole Blood	1	1	2
Serum	0	0	0
Dried Blood Spot	0	0	0
Sputum	0	0	0

4.2.2.4 Specimen counts (Grouped)

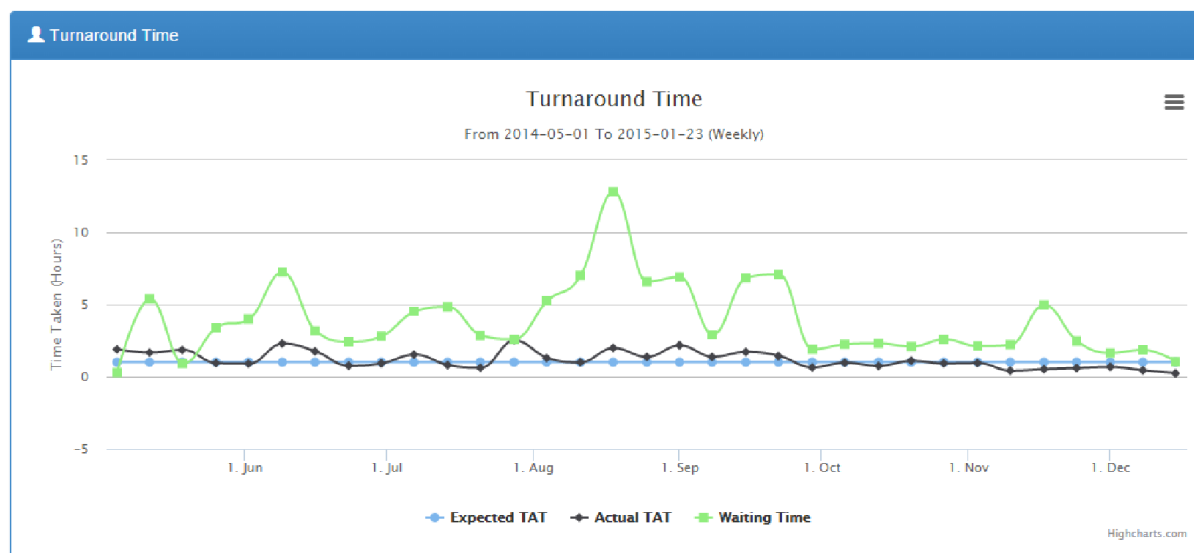
Click the ☒ Specimen Counts (Grouped) checkbox then [View](#) to load the report

Counts						
Specimen Counts (Grouped) - From 2015-01-01 To 2015-01-23						
Test Types	Gender	Age Ranges			M/F Total	Total Specimen
		0-5	5-15	15-120		
Whole Blood	Male	0	0	0	0	1
	Female	1	0	0	1	
Serum	Male	0	0	0	0	0
	Female	0	0	0	0	

4.2.3 Turnaround time report

Allows you to see actual turnaround times between test order and completion for all or specific tests.

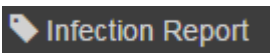
1. Click the [Turnaround Time](#) sub-menu to load the report
2. Set a date range then click the [View](#) button to filter the report. The default is data for the current year.



3. You can choose to run a log for one lab section or for one type of test. The default settings are test records, all sections, and all tests.
4. The report loads with Export controls which can be accessed by clicking the icon where the chart can be exported to PDF document or as an image.

4.2.4 Infection report

Allows you to generate reports of infections by patient age and gender.


1. Click  sub-menu to load the report. By default, it loads data counts for the current year.

From To Lab Section [View](#)

Infection Report

Infection Report - From 01-01-2015 To 23-01-2015

Test	Measure	Results	Gender	Age Range			M/F Total	Total	Total Tests
				0-5	5-14	14-120			
No records found.									

2. Set a date range or select one Lab Section, or all sections to see all test results after clicking the  button.


Infection Report

Infection Report - From 2014-05-01 To 2015-01-23

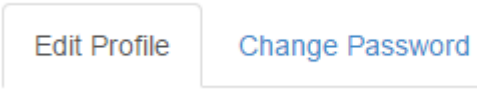
Test	Measure	Results	Gender	Age Range			M/F Total	Total	Total Tests
				0-5	5-14	14-120			
BS for mps	BS for mps	+	Female	833	298	1129	2260	3935	16616
			Male	832	262	581	1675		
		++	Female	247	107	242	596	1063	
			Male	230	104	133	467		
		+++	Female	217	124	106	447	837	
			Male	208	107	75	390		
		++++	Female	108	51	23	182	356	
			Male	115	48	11	174		
		no mps seen	Female	1744	642	3857	6243	10425	
			Male	1818	540	1824	4182		

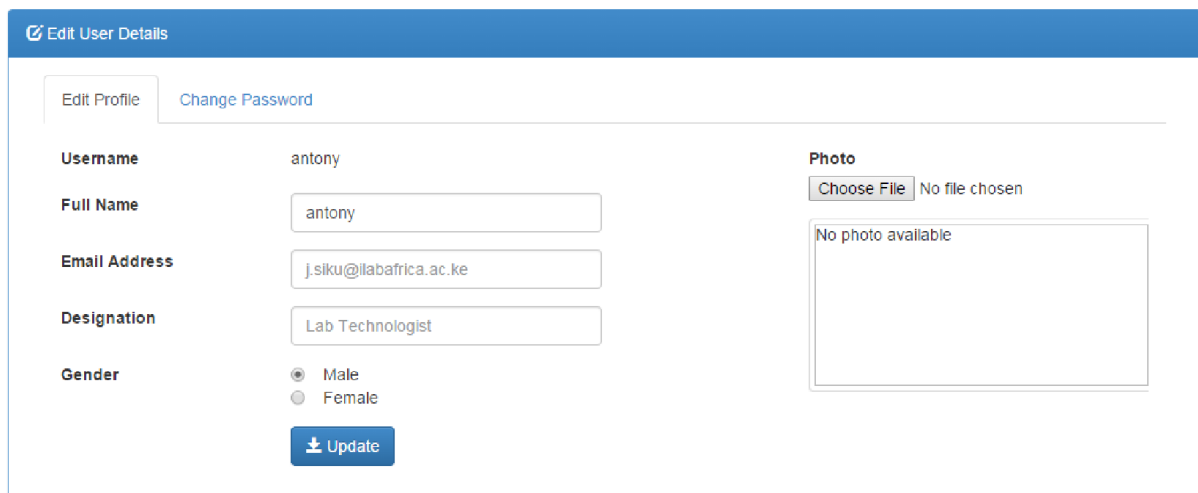
5.0 User Account

Allows users signed into the system to update their accounts such as passwords for security reasons, adding profile pictures and so forth.

Click the  **Access Controls** sub-menu to open the user details page.

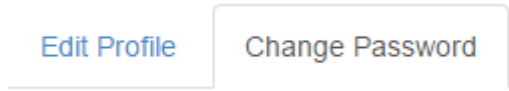
5.1 Editing your user profile

1. Click the  tab on the tabbed bar
2. Make modifications to the details using the form provided



3. Click the  button to save the changes

5.2 Changing your password

1. Click the , change password tab.
2. Make necessary modifications to the data. Remember the new password MUST match retyped password.

Edit User Details

Edit Profile
Change Password

Current Password

New Password

Retype Password

Update

- Click the  button to save the changes

5.3 Signing out of the BLIS

- Go to the top right corner of the top bar where your username is indicated e.g. Antony

kBLIS 1.0
antony

- Click on the username to open a menu with  and

Logout

links.

- Click the **Logout** link to be sign out. You should be redirected to the login page of BLIS.



Bungoma District Hospital Laboratory

Username

Password

Login

[User Guide in progress](#)

kBLIS - a port of the Basic Laboratory Information System (BLIS) to Laravel by iLabAfrica. BLIS was originally developed by C4G.

Glossary

Admin – Designation for a user that has control over lab configuration settings.

Reports – Pages that collect metrics for various types of data. The scope of these reports varies from individual patients to entire groups of laboratories.

Aggregate – Type of report that collects data over a period of time and presents it to the user.

Results - The recorded outcome of tests performed on specimens.

Specimen – An entry representing a physical specimen or reading taken from a patient.

Specimen Type – Classification for different types of specimens.

Grouped Reports – Reports that cover multiple types of information.

Technologist – A designation for a user who is tasked with entering data into BLIS.

Test – An entry representing a test or reading taken from a specimen.

Test Type – Classification for different types of tests.

Turnaround Time – A measurement of the time it takes to receive a result, once a specimen is collected.

Patient – Entry for a patient whose specimens, tests are performed on.

User – Any person or entity that logs into the BLIS program.

Prevalence Rate – The percentage rate of occurrence of a particular result of tests.

Verify – An action performed on test entries that validates the results for further use.

Registration – The act of entering a patient into the BLIS program. Creates a unique patient entry that can be associated with specimens and tests.