

C4G BLIS

User Manual

Rev 2.4

A collaboration between Computing-for-Good (C4G) at Georgia Tech,
the CDC and participating PEPFAR countries.

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What is BLIS?

The Basic Laboratory Information System, BLIS, is a freeware Web-based system that can be installed in a local, district, or national laboratory. It is a tool that can help to standardize data, which improves the ability to run useful reports and can both give a realistic picture of laboratory services and assist with staff and budget planning. With enough data, BLIS can be used to track disease prevalence over time.

Features of BLIS include:

- One-time entry of each unique patient
- Standardization of data collected (allowable entries for specimen type, test type, patient data, reagents are set at MOH level and then entered consistently throughout a country)
- Customization to a country's needs
- Ability to track lab supplies such as test kits, reagents
- Ability to run reports as specified by a country
- Automatic alerting of data values that may be out of range (reference ranges and panic values are set at the regional or national level)
- Daily logs to be reviewed for data verification
- Simple data backup

As with any properly implemented electronic record system, BLIS may be found over time to improve data accuracy and reduce costs in laboratories. Benefits already seen in labs using BLIS:

- Reduced burden for technicians, as results are available soon after testing
- Improved consistency of data entry
- Ability to view patient history and track samples
- Ability to aggregate data and analyze data patterns and trends at a regional or national level
- Printed patient records in place of handwritten records
- Printed daily logs that make the reports look like the paper forms used in the laboratory

Starting BLIS

To start the BLIS server, you must double-click on the BLIS.exe file.

You will then see a page requesting login information. You must then enter your

Basic Laboratory Information System

Username

Password

Login

Tips
If you have forgotten your password then please send an email to 'c4gbackup@gmail.com' with the subject 'Password'. New password will be sent to you.[User Guide](#) | [Comments?](#) | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Français](#) | [Default](#)

credentials to proceed.

After your session is complete, click the **logout** button in the top right of the screen. This will pop up a window where you can rate your experience with C4G BLIS and write any comments you have. After entering your feedback press the **Submit** button to fully logout. Alternatively, you may press **Skip** to logout immediately without providing any feedback. If you do not wish to logout, press **CLOSE**.

Basic Laboratory Information System Logged in as: testlab_admin | [Edit Profile](#) | [Work as Manager](#) | [Logout](#)

[Home](#) | [Registration](#) | [Results](#) | [Search](#) | [Reports](#) | [Inventory](#) | [Backup Data](#)

Home
Welcome, testlab_admin.
The Basic Laboratory Information System

User Rating
How would you rate this experience with BLIS?
☐ 1. Highly satisfactory
☐ 2. Somewhat satisfactory
☒ 3. Neither satisfactory nor unsatisfactory
☐ 4. Unsatisfactory
☐ 5. Highly unsatisfactory
Comments:

 X

Tips
You can update your profile and password by clicking on [Edit Profile](#).

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Manager(Admin) Overview

The manager interface gives you the ability to add, edit, and delete users as well as change laboratory configuration settings. As a manager, you can also generate and print reports.

When you log in as an administrator, you see the Manager home page.

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Home

Welcome, testlab_admin.

The Basic Laboratory Information System (BLIS) tracks patient specimens and laboratory results.

Tips

You can update your profile and password by clicking on [Edit Profile](#).

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To switch to technician view, click the **Work as Technician** link at the top right of the page. To go back to the manager view, click the **Work as Manager** link that will be in the same place on the screen.

Lab Configuration

The lab configuration section allows you to change how reports are generated, what patient data is collected, as well as various other settings. These settings are usually set by the director at the country level, and can be imported/exported through the same page the settings are decided.

The various pages of this section are explained in the following pages:

Summary

This page displays information about lab, specimen types, and test types. It also lists technicians' logins and privileges.

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Summary

Facility Name	Test Lab
Location	GT
Lab Manager	testlab_admin
Specimen Types	Aspirate CSF Dried Blood Spot Nasal Swab Plasma Plasma EDTA Rectal Swab Semen Serum SKIN Sputum Stool Throat Swab U/S Urine V/S Whole Blood

Tests

Specimen/Test Types

Allows you to set the specimen and test types as appropriate for your country. Click **Show** to reveal and **Hide** to close the list. Check the box for each specimen type collected or test done at this facility, and click **Submit** to save.

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Specimen/Test Types

Specimen Types [Hide](#)

Specimen Types		
<input type="checkbox"/> Aspirate	<input checked="" type="checkbox"/> CSF	<input checked="" type="checkbox"/> Dried Blood Spot
<input type="checkbox"/> Nasal Swab	<input checked="" type="checkbox"/> Plasma	<input checked="" type="checkbox"/> Plasma EDTA
<input type="checkbox"/> Rectal Swab	<input checked="" type="checkbox"/> Semen	<input checked="" type="checkbox"/> Serum
<input checked="" type="checkbox"/> SKIN	<input checked="" type="checkbox"/> Sputum	<input checked="" type="checkbox"/> Stool
<input type="checkbox"/> Throat Swab	<input checked="" type="checkbox"/> U/S	<input checked="" type="checkbox"/> Urine
<input checked="" type="checkbox"/> V/S	<input checked="" type="checkbox"/> Whole Blood	

Target TAT

Displays turnaround times for tests. To enter or change turnaround time, click **Edit**. The number and unit (such as “24 hours”) change to a text field and a drop-down list. Enter the desired number and choose **Hours** or **Days**. When finished, click the **Submit** button to save changes, or **Cancel** to discard changes. These options are below the list.

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Page Help

Target TAT | [Edit](#)

Test Type	Turnaround Time
AFB	48 Hours
Alb	24 Hours
Alkaline Phosphatase	24 Hours
ALT/SGPT	24 Hours
Amylase	24 Hours
asd	24 Hours
ASLO	24 Hours
ASOT (Streptococcal)	24 Hours
AST/SGOT	24 Hours
Bleeding Time (RT)	24 Hours

Results Interpretation

Allows you to specify the interpretation for multiple ranges of values for each test type. To view or edit an existing test's result, choose the test type from the drop-down list and click the **Search** button. The current interpretation appears. Edit using the text boxes.

To add a new range to the list, click the **Add Another** link and enter data in the text boxes. Click the **Submit** button to save changes, **Cancel** to discard them.

Search

This section allows you to configure what results are displayed for each patient when a search is executed. It also allows you to change how many results are displayed on each page.

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Configure Fields for search results

☐ Patient Number

☐ Patient's Age

Number of Results Per Page:

20

Submit

Reports

Infection Report

Generates an aggregate report of laboratory test results for a particular period for one or all lab sections. The tests listed in the report are the ones checked to include on the Specimen/Test Types page. Click **Edit** to make changes to the details reported. When finished, click **Submit** button to save changes, **Preview** to view the report, **Cancel** to discard changes.

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-Infection Report

-Test/Specimen Grouped Reports

-Daily Report Settings

-Worksheet

Inventory

Barcode Settings

Infection Report | [Edit](#)

Group By Gender	Yes
Group By Age	Yes
Age Range (Years)	sdfsdf-4 4-9 9-14 14-19 19-24 24-29 29-34 34-39 39-44 44-49 49-54 54-59 59-64 64-+
ALT/SGPT	0-1000
Hepatitis B Surface Antigen	No range configuration required.
Blood Urea Nitrogen	sdfsdf-1000

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Daily Report Settings

Allows you to set the layout of the Patient Report, Daily Log of Specimens, and Daily Log of Patients. Use the drop-down to select the report type, and click **Search**. Edit report settings, and add or change a logo to appear on the report. Check or un-check boxes to show or hide patient, specimen, and test information. When finished, click the **Submit** button to save changes, or **Cancel** to discard changes. These options are below the list.

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Daily Report Settings

Report Type

Patient Report

Search

Worksheet

Allows you to create templates for gather patient data in the lab. In lab settings where data are not entered at the point of service, the data entry staff enter patient information and the tests ordered, then print the worksheet so that lab technicians can write test results and other data to be entered into BLIS. Select the **Lab Section** and **Test Type** and click **Search** to edit the report format. To edit a custom report, click **Edit** to the right of the report. To create a new custom worksheet, click the **Add Custom Worksheet** link at the bottom of the list.

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Worksheet

Lab Section

All

Test Type

AFB

Search

Custom Worksheets Custom Worksheets

#	Name	
1.	CHEMISTRY WORKSHEET	Edit
2.	SEROLOGY WORKSHEET	Edit
3.	PARASITOLOGY WORKSHEET	Edit
4.	BACTERIOLOGY WORKSHEET	Edit
5.	MALARIA WORKSHEET	Edit

Add Custom Worksheet »

Inventory

The main page is a list of any existing reagents being tracked in BLIS. To add another, click the **Add Reagent** link above the list.

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[Add Reagent](#) | **Current Inventory**

Reagent	Quantity	Unit	Update	Add	Edit
---------	----------	------	--------	-----	------

To add a reagent, input the name, unit of measurement associated with the reagent, and any miscellaneous remarks about the reagent, then press **Submit**.

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« Back | **Add New Reagent**

Reagent *

Unit

Remarks

Tips

Add new Reagent by completing this form. Stocks can then be added for these reagents. Reagent name is required. Entering units for the reagent is optional. As you type letters in reagent name field, reagents with similar names are displayed below.

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Billing

This page gives you options to enable/disable billing overall, as well as change options for how currency is represented in the various parts of the website. After making your changes, click **Update** to save your changes.

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☒ Enable Billing

Currency Name:

Currency Delimiter:

Currency will display as: 00.00 USD

Update

User Accounts

This page shows all the users with access to the system. It allows you to create new user accounts, edit account settings, delete accounts, and monitor account activity.

Click **Add New Account** to enter a new user.

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User Accounts | [Add New Account](#)

#	Username	Type			
1.	asdf	Lab Technician	Recent Activity	Edit	Delete
2.	testlab_tech1	Lab Technician	Recent Activity	Edit	Delete
3.	testlab_tech2	Lab Technician	Recent Activity	Edit	Delete

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[Back](#) | **New Lab User**

Username

asdf

Name

Email

asdf@asdf.asd

Phone No.

Language

English

Type

Lab Technician

Display Name at Results Entry?

☐ Yes

[Reset Password](#)

[Submit](#)

[Cancel](#)

Tips

Edit user account details or reset password by entering a new one.

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[Change Password](#)

Edit Profile

Username

testlab_admin

Name

TestLab Admin

Email

Phone No.

Language

Default

[Update](#)

Tips

Please note that passwords are case-sensitive.

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Recent Activity opens a new browser page to show the user's activity by location, specimen entry, and results. To view activity by date, enter or edit the start and end dates of the range you wish to see and click **View**. When you are finished, click **Print** or **Close This Page**.

Click **Edit** for a user to edit user account details or to reset password. **User Type** dictates the access the user has in the system. **Reset Password** allows you as administrator to enter a new password for this user. Click **Submit** button to save changes, **Cancel** to discard.

To remove a user account, click the **Delete** link for that user. A confirmation box appears. Click **OK** to complete the deletion, **Cancel** to keep that user's information.

Registration Fields

This page shows the configuration of the patient registration page. It allows you to create mandatory fields and hide the fields that are not used, per your country's protocols. It also allows for creation of certain custom fields for Patient registration and new Specimen addition which may be needed by certain labs only.

To customize fields, click **Edit** to make changes: check the box to display a field, un-check to hide. Set fields as required. After editing, click **Update** button below the fields to save changes, **Cancel** to discard.

To create new fields, choose the **Add New** link for which to add, and enter field name and type. Click **Submit** button to save changes, **Cancel** to discard.

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Registration Fields | [Edit](#)

Patients - Patient ID	In use
Patients - Additional ID	Not in use
Patients - Patient Number	In use Reset: Daily
Patients - Date of Birth	In use
Specimens - Specimen ID	Not in use
Specimens - Comments	In use
Specimens - Lab Receipt Date	In use (Mandatory field)
Specimens - Referred Out	In use
Specimens - Physician	In use
Date Format	d-m-Y

Custom Fields - Specimens | [Add New \[?\]](#)

#	Name	Type	
1.	Tots	Free-text	Edit

Custom Fields - Patients | [Add New \[?\]](#)

No custom fields exist

Custom Fields - Lab Titles | [Add New \[?\]](#)

#	Name	Type	
1.	title	Drop-down Options	Edit

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Modify Language

BLIS allows you to toggle between languages. You can also choose to change the language for a few pages using this option. The pages are listed as a drop-down menu. Select the language and category (type of page or section). Select **Search** button to view or edit the text. When finished, click **Submit** button to save changes, **Cancel** to discard.

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Modify Language

Language Category

Setup Network

Use this procedure to add a computer other than the primary one to the network. You will also do this after a computer restart or network failure.

- Login as Admin.
- Click on the **Setup Network** option in the Lab Configuration tab.
- Navigate to the program files for BLIS.
- Double click on the file **BlisSetup.html**

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Setup can be accessed from BlisSetup.html in the main folder.

Export Configuration

Use this feature to export all configuration settings to Microsoft Word. Clicking this link opens a new browser tab with a preview showing all preset and custom fields as well as report settings. The preview has three buttons at the top: Print, Export as Word document, and Close.

Click the **Print** button to open the print dialog box; **Export as Word document** to create a file named **blisreport_[date of report].doc**, which you may open or save, or **Close** to close this browser tab.

Revert to Backup

In case of system failure, this feature allows you to revert to a previously backed-up copy of the data. Clicking the link presents the dates of the previous backups and allows you to choose which data set to load.

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Backup Version

☒ 25-02-2013 13:42
 ☐ Yes
 ☐ No

Include Language Settings?
 ☒ Yes
 ☐ No

Backup current version before reverting?
 ☒ Yes
 ☐ No

Submit

Update to New Version

This link automatically updates your version of BLIS to the current one. It requires Internet connectivity.

Test Catalog

Specimen Type

This is the place to add or edit specimen types used in your laboratory.

Click **Add New** to enter a new specimen type. Required fields are **Name**, which is a text box for entering the name of the specimen, and **Compatible Tests**, which allows you to check the tests that can be performed using that specimen. **Ctrl-F** opens the Find function to search for a test. You may enter a **Description** of the specimen type, which is optional.

To edit the information about a specimen type, find the one you wish to edit on the list and then click the **Edit** link in the far-right column.

Click **Submit** button to save changes, **Cancel** to discard.

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Specimen Types

Test Types

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Specimen Types | [Add New](#)

1.	Aspirate	Edit
2.	CSF	Edit
3.	Dried Blood Spot	Edit
4.	Nasal Swab	Edit
5.	Plasma	Edit
6.	Plasma EDTA	Edit
7.	Rectal Swab	Edit
8.	Semen	Edit
9.	Serum	Edit

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New Specimen Type | [Cancel](#)

Name *	<input type="text"/>		
Description	<input type="text"/>		
Compatible Tests * [?]	<input type="checkbox"/> AFB	<input type="checkbox"/> Alb	<input type="checkbox"/> Alkaline Phosphatase
	<input type="checkbox"/> ALT/SGPT	<input type="checkbox"/> Amylase	<input type="checkbox"/> asd
	<input type="checkbox"/> ASLO	<input type="checkbox"/> ASOT (Streptococcal)	<input type="checkbox"/> AST/SGOT
	<input type="checkbox"/> Bleeding Time (BT)	<input type="checkbox"/> Blood filaria	<input type="checkbox"/> Blood Type (ABO/Rh)
	<input type="checkbox"/> Blood Urea Nitrogen	<input type="checkbox"/> C-Reactive Protein	<input type="checkbox"/> Calcium
	<input type="checkbox"/> CD4	<input type="checkbox"/> Chlamydia	<input type="checkbox"/> Chloride
	<input type="checkbox"/> Clotting Time (CT)	<input type="checkbox"/> CO2 Bicarbonate	<input type="checkbox"/> Conjugated/Direct Bilirubin
	<input type="checkbox"/> Creatine Kinase	<input type="checkbox"/> Creatinine	<input type="checkbox"/> CSF
	<input type="checkbox"/> Culture	<input type="checkbox"/> Cytobacteriologic Examination of Urine (CBEU)	<input type="checkbox"/> Erythrocyte Sedimentation Rate (ESR)

Test Type

This is the place to add or edit test types used in your laboratory. It is controlled the same as Specimen Types.

Click **Add New** to enter a new test type. Required fields are **Name**, which is a text box; **Lab Section**, a drop-down list that includes an option to add a new section; **Measures**, which are editable; and **Compatible Specimens**, which allows you to check one or more specimens that can be used for this test.

Optional fields include **Description** (text box), **Clinical Data**, **Panel Test** (a check-box, checked for Yes), **Hide Patient's Name** drop-down Yes/No), **Prevalence Threshold** (text box), and **Target TAT** (text box).

To edit the information about a test type, find the one you wish to edit on the list and then click the **Edit** link in the far-right column.

Click **Submit** button to save changes, **Cancel** to discard.

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New Test Type | [Cancel](#)

Name *

Lab Section *

Serology

Description

Clinical Data [?]

Panel Test?

☐

Measures * [?]

Name *	Type *	Values *	Unit /Default Value[?]
<input type="text"/>	Numeric Range	<input type="text"/> : <input type="text"/>	<input type="text"/>
<div>Add Sub Measure »</div> <div>Range Gender Age_Range</div>			
<div>Add Another »</div>			

Compatible Specimens * [?]

<input type="checkbox"/> Aspirate	<input checked="" type="checkbox"/> CSF	<input checked="" type="checkbox"/> Dried Blood Spot
<input type="checkbox"/> Nasal Swab	<input checked="" type="checkbox"/> Plasma	<input checked="" type="checkbox"/> Plasma EDTA
<input type="checkbox"/> Rectal Swab	<input checked="" type="checkbox"/> Semen	<input checked="" type="checkbox"/> Serum
<input checked="" type="checkbox"/> SKIN	<input checked="" type="checkbox"/> Sputum	<input checked="" type="checkbox"/> Stool
<input type="checkbox"/> Throat Swab	<input checked="" type="checkbox"/> U/S	<input checked="" type="checkbox"/> Urine
<input checked="" type="checkbox"/> V/S	<input checked="" type="checkbox"/> Whole Blood	

Hide Patient Name in Report

No

Prevalence Threshold

Target TAT

Cost To Patient

0

00

USD

Submit

Cancel

Backup Data

The application creates a backup automatically when you select the **Backup Data** tab and saves it to the application file folder. Your lab may have a designated folder to which to copy the backup files.

Back up the data in BLIS weekly.

The name of the backup file is **blis_backup_[username]_[date]-[time]/**

Technician Overview

Home

When you log in as a technician, you see this home page:

Basic Laboratory Information System

Logged in as: testlab_admin | [Edit Profile](#) | [Work as Manager](#) | [Logout](#)

[Home](#) | [Registration](#) | [Results](#) | [Search](#) | [Reports](#) | [Inventory](#) | [Backup Data](#)

Home

Welcome, testlab_admin.

The Basic Laboratory Information System (BLIS) tracks patient specimens and laboratory results.

Tips

You can update your profile and password by clicking on [Edit Profile](#).

[User Guide](#) | [Comments?](#) | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Francais](#) | [Default](#)

Users with Admin rights can click the **Work as Manager** link in the top right corner to switch to Admin view.

Users with Technician rights and not Manager rights see the profile page. You can edit your profile to add or change email, phone, and language. Username cannot be changed.

Click on the Change Password link to change your password.

Registration

This page allows you to add new patients to the system and to look up existing patients based on name, patient ID, or number.

To add a new patient: Click the **Search** button without entering any search criteria. The **Add New Patient** link appears. Also, if no results are found for the patient you are searching for, you will be given the option to create a new patient, and the name you searched will automatically be filled into the new patient form. Click the link and wait for a dialog box to appear on your screen. Fill in the blank fields and check the appropriate elements. Elements with asterisks * are mandatory. Click on **Submit** to save, or **Cancel** to discard changes and return to patient look-up page.

C4G Basic Laboratory Information System User Manual

Basic Laboratory Information System						Logged in as: testlab_admin Edit Profile Work as Manager Logout			
Home	Registration	Results	Search	Reports	Inventory	Backup Data			

[Page Help](#)

Patient Look-up

Patient Name	<input type="text" value="test patient"/>	<input type="button" value="Search"/>
--------------	---	---------------------------------------

No match found - Name **test patient**

If not this name '**test patient**' [Add New Patient](#)>

[User Guide](#) | [Comments?](#) | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Français](#) | [Default](#)

Basic Laboratory Information System						Logged in as: testlab_admin Edit Profile Work as Manager Logout			
Home	Registration	Results	Search	Reports	Inventory	Backup Data			

[Page Help](#)

[New Patient](#) | [« Back to Patient Look-up](#)

Patient ID	<input type="text"/>
Date of Registration	<input type="text" value="25"/> - <input type="text" value="02"/> - <input type="text" value="2013"/> <small>(dd) (mm) (yyyy)</small>
Patient Number	<input type="text" value="1"/>
Name *	<input type="text" value="test patient"/>
Gender *	<input checked="" type="radio"/> Male <input type="radio"/> Female
Age	<input type="text"/> <small>Only one of Age or Date of Birth is required for entry.</small> <input type="text" value="Years"/>
Date of Birth	<input type="text"/> - <input type="text"/> - <input type="text"/> <small>(dd) (mm) (yyyy)</small>
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>	

* Mandatory Field

[User Guide](#) | [Comments?](#) | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Français](#) | [Default](#)

Patient Look-Up

Once a patient has been registered, you can use the Registration page to view or edit patient profiles. You can also register a specimen the patient has provided for a particular test.

Click on the drop-down list and select patient name, ID, or number. Type in the blank space the patient name, ID, or number you have selected. Enter all the information you have for that patient.

Basic Laboratory Information System Logged in as: testlab_admin | [Edit Profile](#) | [Work as Manager](#) | [Logout](#)

[Home](#) | [Registration](#) | [Results](#) | [Search](#) | [Reports](#) | [Inventory](#) | [Backup Data](#)

[Page Help](#)

Patient Look-up

Patient Name ▾

as

Search

Patient ID	Name	Gender		
-	Asdsfa	M	Register Specimen	View Profile
95864	Ashely Beck	F	Register Specimen	View Profile
53658	Ashely Gray	F	Register Specimen	View Profile
5465465	Ashely Martin Jones	M	Register Specimen	View Profile
26111	Asher Barry	F	Register Specimen	View Profile
81748	Asher Hopper	M	Register Specimen	View Profile
25857	Asher Klein	M	Register Specimen	View Profile
02768	Ashton Hardin	M	Register Specimen	View Profile

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To add or edit a specimen record: Find the patient as above, then click the **Register Specimen** link to the right of the patient name. Fill in the blank fields and check the appropriate elements. Elements with asterisks * are mandatory. Click on **Submit** to save, or **Cancel** to discard changes and return to patient look-up page. **Add Another Specimen** allows you to add another one for this patient.

Basic Laboratory Information System

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[Page Help](#)

Specimen Registration | Accession No. 20130225-3 | [Cancel](#)

Patient Number *

3

Specimen Type *

Aspirate

Tests *

-Select specimen type first-

Lab Receipt Date *

25 - 02 - 2013
(dd) (mm) (yyyy)

Comments

Physician

Dr.

Tots

Referred Out?

☐ Yes ☒ No

Name

Ashely Beck

Gender

F

Age

68 Years

Date of Birth

30-10-1944

Submit

Cancel

* Mandatory Field

[User Guide](#) | [Comments?](#) | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Francais](#) | [Default](#)

Patient Bills

From the “specimen added” page or the patient profile page (pictured below) a technician can access the billing interface if billing is enabled for the lab.

Basic Laboratory Information System

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[Inventory](#)
[Backup Data](#)

Patient Profile | [« Back](#)

Name	Asdsfa
Gender	M
Age	2 Years, 1 Months, 25 Days
Date of Birth	2011-01-16 (approximate)

[Register New Specimen](#)
[Update Profile](#)
[Print Patient Report](#)
[Print Patient Barcode](#)
[Billing Report](#)

After clicking on the ‘Billing Report’ link, the following window will pop up.

Basic Laboratory Information System

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[Reports](#)
[Inventory](#)
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Patient Profile

Name	
Gender	
Age	
Date of Birth	

Test Date	Test Name	Specimen Type	Test Cost	Select for Billing
2013-01-16	Platelet Count	Semen	1.20	View Associated Bill
2013-01-23	ASLO	Serum		View Associated Bill
2013-01-30	Platelet Count	Plasma EDTA	1.20	View Associated Bill
2013-01-30	Platelet Count	Plasma EDTA	0.00	View Associated Bill
2013-02-01	Cytobacteriologic Examination of Urine (CBEU)	Urine		View Associated Bill
2013-02-04	Cytobacteriologic Examination of Urine (CBEU)	Urine	1500.22	View Associated Bill
2013-02-04	Platelet Count	Urine	50.25	View Associated Bill
2013-02-06	Platelet Count	Serum	0.00	View Associated Bill
2013-02-06	ASLO	Serum	20.22	<input type="checkbox"/>
2013-02-06	Gamma Glutamyl	Serum		View Associated Bill
2013-02-06	Platelet Count	Serum	50.25	View Associated Bill

Generate Bill

Test History

Type					
Serum	06-02-2013	Results Pending	Details	Report	Print Barcode

CLOSE X

This window lists all of the tests performed for that patient. If the entry is in grey, that denotes that a bill for that test has already been generated, and you can click the “View Associated Bill” link on the right hand side to view the page for that bill. If the entry is in white, the bill has not yet been generated for that test, and if you wish to generate a bill for it, you can click the box corresponding to the “Select for Billing” column, and then click “Generate Bill”. If there are multiple tests that have not yet been added to a bill, you can select multiple tests to generate a bill for. All selected tests will be added to the generated bill.

After generating or viewing a bill, you will see the following page:

Basic Laboratory Information System						Logged in as: testlab_admin Edit Profile Work as Manager Logout	
Home	Registration	Results	Search	Reports	Inventory	Backup Data	
Bill 24 for Kevin Thompson							
Test Date	Test Name	Specimen Type	Test Cost	Discount Type	Discount Amount		
2013-01-16	Platelet Count	Semen	0.98 USD	Flat	0.22		Update Cost
2013-02-06	Platelet Count	Serum	0.00 USD	None	0.00		Update Cost
2013-02-06	Gamma Glutamyl	Serum	0.00 USD	None	0.00		Update Cost
2013-02-06	Platelet Count	Serum	45.22 USD	Percent	10.00		Update Cost
							Bill Total: 46.20 USD
Print Bill							

[User Guide](#) | [Comments?](#) | C4G BLIS v2.4 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Français](#) | [Default](#)

This page lists all the tests associated with the bill under review. On this page you can apply discounts to the bill, and print the bill when it is ready.

To apply a discount, click the dropdown under Discount Type that corresponds to the desired test. You can select “Flat” if you would like to remove a flat amount from the cost of the test, or select “Percent” if you want to remove a percentage amount from the test. After entering the discount type and amount, click Update Cost for the modified test and the test cost as well as the bill total will be updated. For example, for a test with cost 10.00, selecting flat and entering 2.00 will reduce the test to 8.00, and for another test with cost 20.00, selecting percent and entering 10.00 will reduce the test to 18.00 (reduced by 10%).

After making all desired changes to the bill, click “Print Bill” to generate a printable page with the billing information on it.

Results

Single Specimen Results

This option allows you to add results for a patient based on the specimens provided.

Click on the drop-down list and select patient name, ID, or number. Type in the field at least 2 characters to search.

To add or edit a specimen record: Find the patient as above and then click the **Enter Results** link to the right of the patient name. Fill in the blank fields and check the appropriate elements. Click on **Submit** to save, or **Cancel** to discard changes.

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Basic Laboratory Information System

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[Single Specimen Results](#)
[Batch Results](#)
[Verify Results](#)
[Worksheet](#)

Single Specimen Results

Patient Name

Search

[User Guide](#) | [Comments?](#) | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Français](#) | [Default](#)

Batch Results

This option allows you to add results for a particular Test Type.

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[Single Specimen Results](#)
[Batch Results](#)
[Verify Results](#)
[Worksheet](#)

Batch Results

Test Type

Select one..

From

31

05

2012

(dd)

(mm)

(yyyy)

To

25

02

2013

(dd)

(mm)

(yyyy)

Search

Tips
If you cannot see any information other than Test Name, Results and the Skip Option, please tell your administrator to configure it from Worksheet Configuration

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Select a test for which to find results. Set a date range, then click **Search**. The results appear without patient names . Click on **Submit** to save, or **Cancel** to discard changes.

Verify Results

This option allows you to verify the result based on the test type. It shows the list of results for all patients whose results have not been verified. You can modify the results and enter remarks before verifying the results.

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Basic Laboratory Information System

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Home

Registration

Results

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Single Specimen Results

Batch Results

Verify Results

Worksheet

Verify Results

Test Type

User Guide | Comments? | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | English | Français | Default

Select a **Test Type** and click **Search**. All test results for that test appear. Look over the test results for accuracy. Edit the results as appropriate. When you are finished, click on **Verify**, or **Cancel** to discard changes. Choosing Verify opens a confirmation dialog box. Click **OK** to mark results as verified, **Cancel** to discard changes.

Worksheet

This option generates a worksheet based on the Lab Section and Test Type. In lab settings where data are not entered at the point of service, the data entry staff enter patient information and the tests ordered, then print the worksheet so that lab technicians can write test results and other data to be entered into BLIS. Custom worksheet which can be created by Admins using Lab Configuration > Tests > Reports > Worksheet.

You can create a blank worksheet by choosing the **Keep Blank** option and specifying the number of rows you need. Click **Submit** to create the worksheet.

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Basic Laboratory Information System

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[Summary](#)
[Tests](#)
[Search](#)
[Reports](#)
[-Infection Report](#)
[-Test/Specimen Grouped Reports](#)
[-Daily Report Settings](#)
[-Worksheet](#)
[Inventory](#)
[Barcode Settings](#)
[Billing](#)
[User Accounts](#)
[Registration Fields](#)

Page Help

Worksheet

Lab Section
Test Type

Custom Worksheets Custom Worksheets

#	Name	
1.	CHEMISTRY WORKSHEET	Edit
2.	SEROLOGY WORKSHEET	Edit
3.	PARASITOLOGY WORKSHEET	Edit
4.	BACTERIOLOGY WORKSHEET	Edit
5.	MALARIA WORKSHEET	Edit

Add Custom Worksheet »

Basic Laboratory Information System

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[Single Specimen Results](#)
[Batch Results](#)
[Verify Results](#)
[Worksheet](#)

Worksheet

Lab Section
Test Type
OR
Custom Worksheet
Keep Blank? ☐ Yes ☒ No

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After generating the worksheet, you can click on a column heading to sort the table by that field. You can then **Print** in portrait (default) or landscape view, **Export as a Word Document**, or **Close** the page. If you choose **Export**, the default option is to open the Word document. You can choose to print or save it from Word.

Search

This page allows you to search for a patient by name, number, or ID. You can enter a partial name or ID (at least 2 characters) to generates a list of matches.

Basic Laboratory Information System

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[Summary](#)
[Tests](#)
[Search](#)
[Reports](#)
[Inventory](#)
[Barcode Settings](#)
[Billing](#)
[User Accounts](#)

[Page Help](#)

Configure Fields for search results

☐ Patient Number
 ☐ Patient's Age

Number of Results Per Page:

Click **View Profile** to view the patient's profile and test history.

From the test history section, click **Details** for specimen information. From there you can choose **Get Report** for a specimen report; **Track Actions** to view a log of actions on that specimen, or **Enter Results** to enter the specimen analysis results. You can also generate a report from the test history section on the profile page by clicking the **Report** link.

From the profile page you can also **Register New Specimen**, **Update Profile**, or **Print Patient Report**.

Inventory

Basic Laboratory Information System

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[Page Help](#)

Barcode Scan Search:

[Add Reagent](#) | [Generate Barcodes](#) | [Current Inventory](#)

Reagent	Quantity	Unit	Update	Add	Edit

[User Guide](#) | [Comments?](#) | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Français](#) | [Default](#)

Current Inventory

This link displays the reagent quantities currently in stock. It is not editable. To edit the list, click **Add Reagent**.

Add Reagent

Click **Add Reagent** to add a new reagent to the list. Update your stock as you acquire new reagents by adding the reagent name, quantity received, receiver name, and remarks. Click **Submit** to save changes.

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Basic Laboratory Information System

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[« Back](#) | **Add New Reagent**

Reagent *

Unit

Remarks

Submit

Cancel

Tips
Add new Reagent by completing this form. Stocks can then be added for these reagents. Reagent name is required. Entering units for the reagent is optional. As you type letters in reagent name field, reagents with similar names are displayed below.

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Generate Barcodes

Clicking this link will bring you to a page where you can generate barcodes. To do so, enter your text into the field on the page, and press **Generate**. After generating your barcodes, you can print them by pressing the **Print** button.

Basic Laboratory Information System

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Code:

Generate

Print

Remove


asdf

[Page Help](#)

[User Guide](#) | [Comments?](#) | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Français](#) | [Default](#)

Backup Data

When you click, a new page opens in your browser while data are backed up automatically. The file is saved as **blis_backup_[username]_[date]-[time]** in the BLIS directory.

Copy this folder to your hard disk as backup or save as otherwise directed by your country's data backup protocol.

Reports

Any user (Technician or Manager) can generate reports.

Daily Reports

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

Patient Report

Search for the patient by Patient Name, Patient Number, or Patient ID. Click the **Search** button to start search. Select the patient you want from the list if more than one patient matches your search criteria. Click **View Report** to see all data for that patient, or **Select Tests** to see tests ordered and the results 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.

Basic Laboratory Information System

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Home

Lab Configuration

Test Catalog

Reports

Backup Data

Daily Reports

- **Patient Report**
- Daily Log

Aggregate Reports

- Prevalence Rate
- Counts
- Turnaround Time
- Infection Report
- User Statistics
- Previous Inventory Data

Patient Report

Patient Name

Search

Tips

Select Patient Name, Number or ID to retrieve patient's lab reports

User Guide | Comments? | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Français](#) | Default

Daily Log

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**). If you choose Test Records, 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 opens in a new browser tab and has **Print** and **Export** controls at the top of the page.

Basic Laboratory Information System

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Daily Reports

- Patient Report
- **Daily Log**

Aggregate Reports

- Prevalence Rate
- Counts
- Turnaround Time
- Infection Report
- User Statistics
- Previous Inventory Data

Daily Log

From

25

02

2013

(dd)

(mm)

(yyyy)

To

25

02

2013

(dd)

(mm)

(yyyy)

Records

☐ Test Records
 ☐ Patient Records

Lab Section

All

Test

All

Submit

Tips

Print all records handled on a given day.

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Aggregate Reports

After running an aggregate report, press **Ctrl-S** to open the Save As dialog box. The default location for saving reports is your Downloads folder on the C: drive. Navigate to the folder where you want to save the reports.

Prevalence Rate

Gives the prevalence of a particular laboratory test result based on the number of tests done and the results. Set a date range to view infection graph and prevalence rates. Click **Submit** to run the report, which will open in a new browser tab.

You can also view the trends of the laboratory test results for the defined period, as a graph, by clicking the Trends option after the report is displayed.

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Daily Reports

- Patient Report
- Daily Log

Aggregate Reports

- **Prevalence Rate**
- Counts
- Turnaround Time
- Infection Report
- User Statistics
- Previous Inventory Data

Prevalence Rate

From

31

05

2012

(dd)

(mm)

(yyyy)

To

25

02

2013

(dd)

(mm)

(yyyy)

Submit

Tips

Select the date range to view the infection graph and prevalence rates.

[User Guide](#) | [Comments?](#) | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Français](#) | [Default](#)

Counts

Generates a report for a particular time period of the number of tests, specimens, or doctor statistics. Set a date range and choose **Test Count, Specimen Count, or Doctor Statistics** to run the desired report. The report opens in a new browser tab.

Basic Laboratory Information System

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Daily Reports

- Patient Report
- Daily Log

Aggregate Reports

- Prevalence Rate
- Counts
- Turnaround Time
- Infection Report
- User Statistics
- Previous Inventory Data

Counts

From

31

05

2012

(dd)

(mm)

(yyyy)

To

25

02

2013

(dd)

(mm)

(yyyy)

Count Type

☐ Test Count (Ungrouped)
☒ Test Count (Grouped)
☐ Specimen Count (Ungrouped)
☐ Specimen Count (Grouped)
☐ Doctor Statistics

Submit

Tips

Select date range and type of count required

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Turnaround Time

Allows you to see actual turnaround times between test order and completion for all or specific tests. Set a date range and choose whether to include **Impending Tests**. The default is completed tests only. The report opens in a new browser tab. It also generates a graph of the statistics.

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[Home](#) | [Lab Configuration](#) | [Test Catalog](#) | [Reports](#) | [Backup Data](#)

Daily Reports

- Patient Report
- Daily Log

Aggregate Reports

- Prevalence Rate
- Counts
- Turnaround Time
- Infection Report
- User Statistics
- Previous Inventory Data

Turnaround Time

From

31

05

2012

(dd)

(mm)

(yyyy)

To

25

02

2013

(dd)

(mm)

(yyyy)

Include Pending Tests

☐ Yes
☒ No

Submit

Tips

Select the date interval to view the average test-wise turn-around times for the lab test reports.

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Infection Report

Allows you to generate reports of infections by patient age and gender. Set a date range and select one **Lab Section**, or all sections to see all test results. The report opens in a

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new browser tab. It also provides an option to create a Word document of the generated report.

Basic Laboratory Information System

Logged in as: testlab_admin | [Edit Profile](#) | [Work as Technician](#) | [Logout](#)

Home

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Daily Reports

- Patient Report
- Daily Log

Aggregate Reports

- Prevalence Rate
- Counts
- Turnaround Time
- Infection Report
- User Statistics
- Previous Inventory Data

Infection Report

From

31

05

2012

(dd)(mm)(yyyy)

To

25

02

2013

(dd)(mm)(yyyy)

Lab Section

All

Submit

Tips

Select Date range and lab section to view the Infection report

User Guide | Comments? | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | English | Français | Default

Director Overview

With this most recent version of BLIS, the Director interface has had some new features added. In particular, visualization of test prevalence and turnaround time have been added.

Import Lab Data

This facility is available to the country director under the Lab Configuration tab. This allows the user to import other labs data to be able to access their data via BLIS and view aggregate reports for them. In order to import individual labs' data, the user will need database backup for those labs which can be prepared by their lab admins by using the BLIS's Data backup features. The user has this file, the user can import the file by selecting the blis_[lab id]_backup.sql file (from the backup folder) using the browse button and click import to import data. The system will verify the file for you and display the details of the file along with the timestamp when you last imported data for the particular lab.

Basic Laboratory Information System

Logged in as: cameroon_dir | [Edit Profile](#) | [Logout](#)

[Home](#) | [Lab Configurations](#) | [Lab Managers](#) | [Test Catalog](#) | [Reports](#)

[< Back](#) | **Import Lab Data**

Select update file C:\Users\Naom\Desktop\blis_128_backup:

File name: blis_128_backup

File type: sql

File Status: **Verified**

Lab Name: Bamenda Regional Hospital Lab

Last Import Date: March 3, 2013 3:57 am

Are you sure you want to import the data?

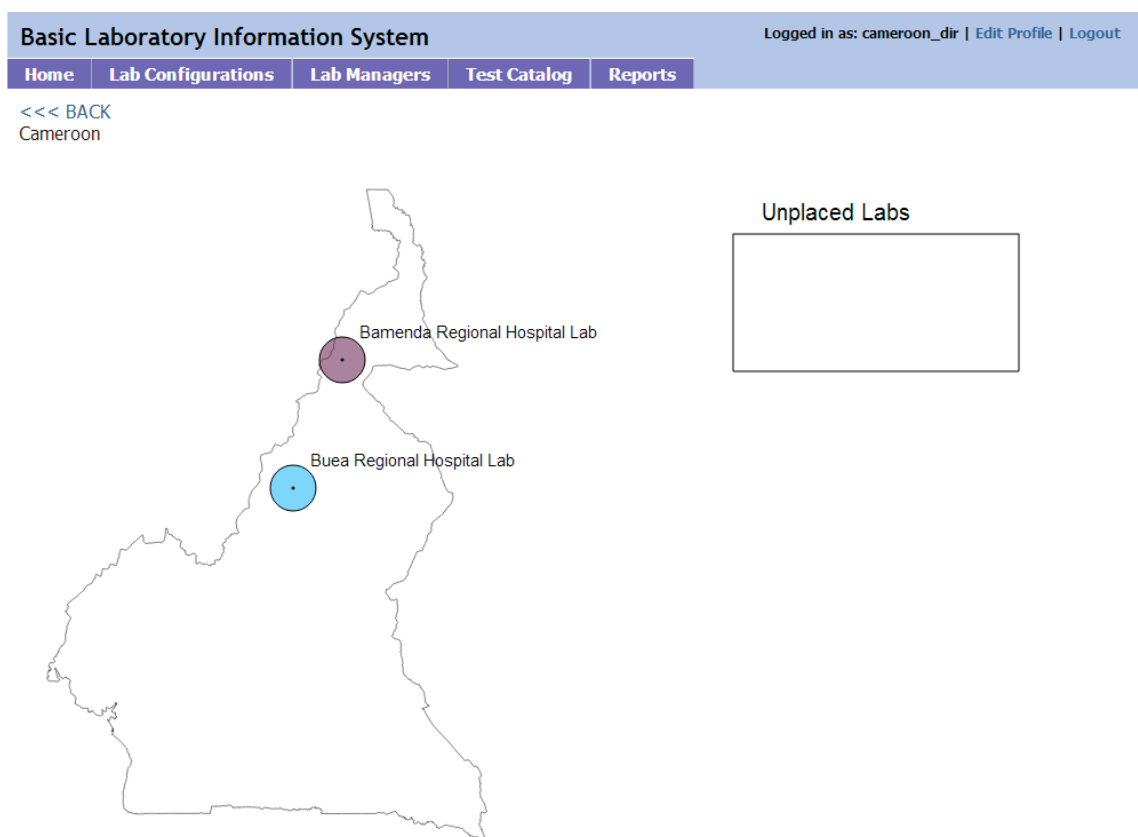
Tips

Click on browse and select the backup file to import. Backup file name should be *blis_{lab ID}_backup.sql*

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Setting Lab Location

In order to use these features as the director, enter the reports tab and click on “Location Settings”. This will display a map of your country, with a set of pins corresponding to the labs in your country.



After placing the labs on their geographical location on the map, you can go back to the reports tab either by clicking on the tab or clicking on the BACK link in the top left of the page.

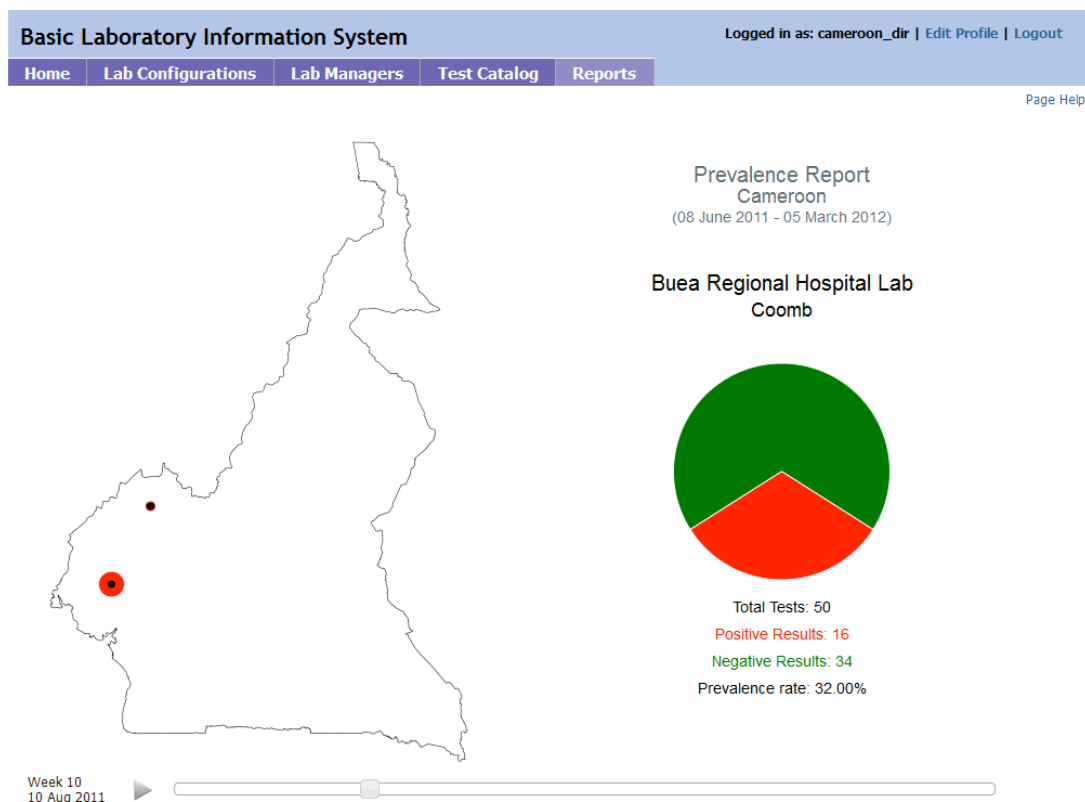
Reports for Country Director

The country director has the ability to import individual labs' data and use that data to generate two types of location-based reports to view the trend in prevalence rate and turnaround time across different labs in the country.

Prevalence Rate Trend (Country Director only)

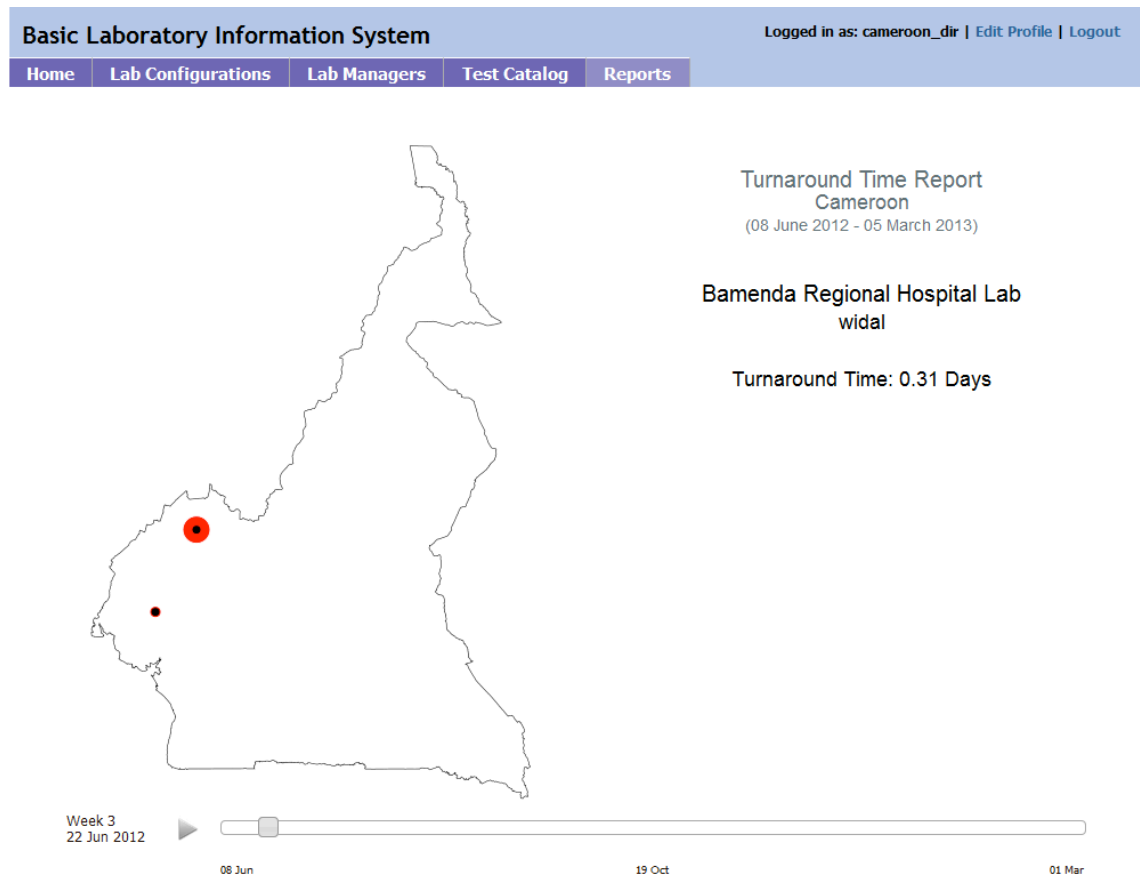
This report is available to country directors to allow them to view the trend of prevalence rate for various infections across the different labs in the country. Labs are displayed on

the country map marked by black dots. These locations can be edited from Location Settings in the Reports section. The red circle surrounding the labs show the extent of prevalence of infection in those locations. The radius of the circle is proportional to the prevalence rate. Hovering your mouse pointer over these locations will display the prevalence stats next to the map. You can view the trend of prevalence rate over time (weekly) by pressing the play button. You can manually slide the bar at the bottom to view prevalence stats for specific weeks.



Turnaround Time Trend (Country Director only)

This report is available to country directors to allow them to view the trend of turnaround time for various tests conducted across the different labs in the country. Labs are displayed on the country map marked by black dots. These locations can be edited from Location Settings in the Reports section. The red circle surrounding the labs show the extent of turnaround time in those locations. The radius of the circle is proportional to the turnaround time. Hovering your mouse pointer over these locations will display the turnaround time next to the map. You can view the trend of turnaround time over time (weekly) by pressing the play button. You can manually slide the bar at the bottom to view turnaround time for specific weeks.



Appendix

Installation

If using a server and router, plug in the router first.

- Set up and turn on the server PC and its monitor.
- Navigate to the BLIS home page and select Download
- Save the files to your hard drive.
- Open the BLIS folder on the desktop and double click on **BLIS.exe**. Wait for a dialog box to appear on the screen. Choose **Yes** from the two options. The application will be installed automatically and the full login screen will appear.
- This completes installation for a single computer.

For networked computers, we recommend setting a static IP address for the network.

- Ensure that the computer is on the network.
- Copy the file **BlisSetup.html** to the computer
- Double click **BlisSetup.html** to install BLIS on the networked computer.
- Wait for the login screen. If the full screen with username, password, and login does not appear, check the URL on the server and make sure they are the same.

Glossary

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

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

Barcodes – Used in inventory management to create printable 'barcode' labels for reagents.

Director – Designation for a user that oversees many laboratories, typically at the country level. Manages lab configuration standardization.

Grouped Reports – Reports that cover multiple types of information.

Inventory – Interface for managing reagents and supplies.

Lab Configuration – Collection of customizable settings relating to the collection and storage of data.

Manager – Another name for an Admin user.

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

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

Reagent – Term used in inventory control in BLIS. Denotes any physical supply that requires tracking in the inventory system.

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

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

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.

Technician – 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.

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

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

Worksheet – Customizable, printable sheets for improving the speed at which information is recorded in a physical sense (i.e. not entered **directly** into the BLIS program.)