

C4G BLIS
User Instruction Manual
Rev. 2.6

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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

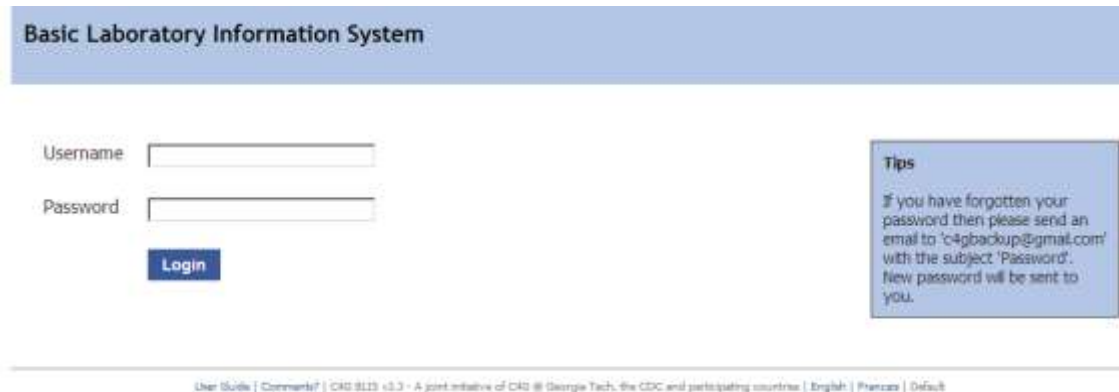
As with any properly implemented electronic record system, BLIS may be found over time to improve data accuracy and reduce costs in laboratories. Benefits already seen in labs using BLIS:

- 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.

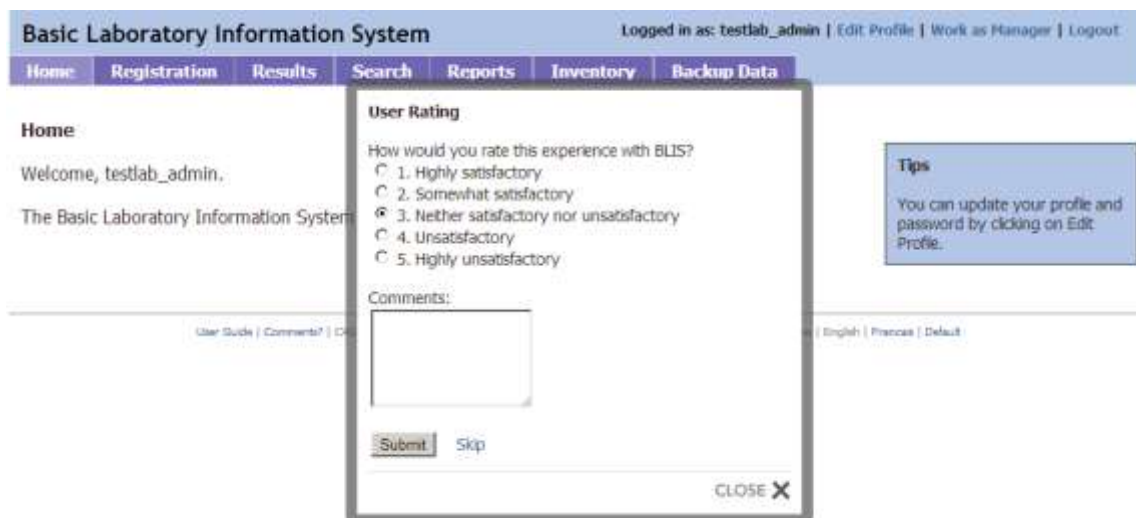
You will then see a page requesting login information. You must then enter your



The image shows the login page of the Basic Laboratory Information System. It has a blue header with the title "Basic Laboratory Information System". Below the header, there are two input fields: "Username" and "Password". A blue "Login" button is positioned below the password field. To the right of the login fields, there is a "Tips" box with the text: "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." At the bottom of the page, there is a footer with the text: "User Guide | Comments? | C4G BLIS v3.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | English | Francais | 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**.



The image shows the BLIS user rating modal. The modal is titled "User Rating" and contains the text: "How would you rate this experience with BLIS?". There are five radio button options: "1. Highly satisfactory", "2. Somewhat satisfactory", "3. Neither satisfactory nor unsatisfactory" (which is selected), "4. Unsatisfactory", and "5. Highly unsatisfactory". Below the options is a "Comments:" label and a text area for entering comments. At the bottom of the modal, there are "Submit" and "Skip" buttons. A "CLOSE X" button is located at the bottom right of the modal. The background shows the BLIS home page with a navigation bar containing "Home", "Registration", "Results", "Search", "Reports", "Inventory", and "Backup Data". The user is logged in as "testlab_admin" and can click on "Edit Profile", "Work as Manager", or "Logout". A "Tips" box on the right says: "You can update your profile and password by clicking on Edit Profile." The footer of the page is the same as the login page.

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.



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.

Basic Laboratory Information System Logged in as: testlab_admin | Edit Profile | Work as Technician | Logout

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

[Summary](#) [Page Help](#)

Summary

Facility Name	Test Lab
Location	GT
Lab Manager	testlab_admin
Specimen Types	Aspartate 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.

Basic Laboratory Information System Logged in as: testlab_admin | Edit Profile | Work as Technician | Logout

Home | Lab Configuration | Test Catalog | Reports | Backup Data

Summary | Tests | Specimen/Test Types | Target TAT | Results Interpretation | Search | Reports | Inventory | Barcode Settings | Billing

Page Help

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.

Basic Laboratory Information System Logged in as: testlab_admin | Edit Profile | Work as Technician | Logout

Home | Lab Configuration | Test Catalog | Reports | Backup Data

Summary | Tests | Specimen/Test Types | Target TAT | Results Interpretation | Search | Reports | Inventory | Barcode Settings | Billing

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
ase	24 Hours
ASLO	24 Hours
ASOT (Streptococcal)	24 Hours
AST/SGOT	24 Hours
Baseline Time /BT%	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.



The screenshot shows the 'Basic Laboratory Information System' interface. At the top, a navigation bar includes 'Home', 'Lab Configuration', 'Test Catalog', 'Reports', and 'Backup Data'. The 'Reports' tab is selected. On the left, a sidebar lists various system functions: Summary, Tests, Search (highlighted), Reports, Inventory, Barcode Settings, Billing, and User Accounts. The main content area is titled 'Configure Fields for search results'. It contains two checkboxes: 'Patient Number' and 'Patient's Age', both of which are currently unchecked. Below these, there is a dropdown menu labeled 'Number of Results Per Page:' with '20' selected. A 'Submit' button is located at the bottom of the configuration area. A 'Page Help' link is visible in the top right corner of the main content area.

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.

Basic Laboratory Information System

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

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

[Summary](#)
[Tests](#)
[Search](#)
[Reports](#)
[Infection Report](#)
[Test/Specimen Grouped Reports](#)
[Daily Report Settings](#)
[Worksheet](#)
[Inventory](#)
[Barcode Settings](#)

Page Help

Infection Report | Edit

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

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.

Basic Laboratory Information System

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

[Home](#)
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[Summary](#)
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[Test/Specimen Grouped Reports](#)
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Page Help

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.

Basic Laboratory Information System Logged in as: testlab_admin | Edit Profile | Work as Technician | Logout

Home Lab Configuration Test Catalog Reports Backup Data

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: 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.

Basic Laboratory Information System Logged in as: testlab_admin | Edit Profile | Work as Technician | Logout

Home Lab Configuration Test Catalog Reports Backup Data

Summary Tests Search Reports Inventory Barcode Settings

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**.

The screenshot shows the 'Basic Laboratory Information System' interface. At the top, a navigation bar includes 'Home', 'Lab Configuration', 'Test Catalog', 'Reports', and 'Backup Data'. The user is logged in as 'testlab_admin' and can 'Edit Profile', 'Work as Technician', or 'Logout'. The current page is 'Add New Reagent', accessible via a 'Back' link. The form contains three input fields: 'Reagent *' (required), 'Unit', and 'Remarks'. Below the form are 'Submit' and 'Cancel' buttons. A 'Tips' box on the right provides instructions: '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.' The footer contains links for 'User Guide', 'Comments?', and version 'C4G BLIS v3.3', along with a note about the system being a joint initiative of C4G @ Georgia Tech, the CDC, and participating countries. Language options for 'English', 'Francais', and 'Default' are also present.

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.

To add a new currency into the billing system, click the **Add a new currency** link, enter a new value and click **Add Currency Type**.

To add a new exchange rate between a default currency and a secondary currency, click the **Add new currency rate**, then choose a secondary currency(if any) from the drop down, enter a conversion rate and click **Add**.

Basic Laboratory Information System

Logged in as: testlab1_admin | [Edit Profile](#) | [Work as Technician](#) | [Logout](#)

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

[Summary](#)
[Tests](#)
[Search](#)
[Reports](#)
[Inventory](#)
[Barcode Settings](#)
[Billing](#)
[User Accounts](#)
[Registration Fields](#)
[Modify Language](#)

Page Help

☒ Enable Billing

Default Currency Name: USD

Currency Delimiter: .

Currency will display as: 00.00 USD

[Add new currency rate](#)

[Add a new currency >>](#)

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.

Basic Laboratory Information System

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

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

Page Help

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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The screenshot shows the 'Basic Laboratory Information System' interface. At the top, it says 'Logged in as: testlab_admin | Edit Profile | Work as Technician | Logout'. Below this is a navigation bar with links: Home, Lab Configuration, Test Catalog, Reports, and Backup Data. The main content area is titled 'Back | New Lab User'. It contains a form with the following fields: Username (pre-filled with 'asdf'), Name (empty), Email (pre-filled with 'asdf@asdf.asd'), Phone No. (empty), Language (dropdown menu with 'English' selected), Type (dropdown menu with 'Lab Technician' selected), Display Name at Results Entry? (checkbox, unchecked), and Reset Password (checkbox, checked). At the bottom of the form are 'Submit' and 'Cancel' buttons. To the right of the form is a 'Tips' box that says: 'Edit user account details or reset password by entering a new one.' At the very bottom of the page is a footer with links: User Guide | Comments? | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | English | Français | Default.

The screenshot shows the 'Basic Laboratory Information System' interface. At the top, it says 'Logged in as: testlab_admin | Edit Profile | Work as Manager | Logout'. Below this is a navigation bar with links: Home, Registration, Results, Search, Reports, Inventory, and Backup Data. The main content area is titled 'Edit Profile'. It contains a form with the following fields: Username (pre-filled with 'testlab_admin'), Name (pre-filled with 'TestLab Admin'), Email (empty), Phone No. (empty), and Language (dropdown menu with 'Default' selected). At the bottom of the form is an 'Update' button. To the left of the form are links for 'Edit Profile' and 'Change Password'. To the right of the form is a 'Tips' box that says: 'Please note that passwords are case-sensitive.' At the very bottom of the page is a footer with links: User Guide | Comments? | C4G BLIS v2.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | English | Français | Default.

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.

Basic Laboratory Information System

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

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

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[Registration Fields](#)
[Modify Language](#)
[Setup Network](#)
[Revert To Backup](#)
[Export Configuration](#)

Page Help

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

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

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.



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**



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.

The screenshot shows the BLIS web application interface. At the top, a blue header bar contains the title 'Basic Laboratory Information System' and a user status bar indicating 'Logged in as: testlab_admin' with links for 'Edit Profile', 'Work as Technician', and 'Logout'. Below the header is a navigation menu with tabs: 'Home', 'Lab Configuration', 'Test Catalog', 'Reports', and 'Backup Data'. The 'Backup Data' tab is selected. On the left side, there is a vertical sidebar with links: 'Summary', 'Tests', 'Search', 'Reports', 'Inventory', 'Barcode Settings', 'Billing', and 'User Accounts'. The main content area displays the 'Revert to Backup' form. It includes a 'Page Help' link at the top right. The form contains three fields: 'Backup Version' with a value of '25-02-2013 13:42', 'Include Language Settings?' with radio buttons for 'Yes' and 'No' (where 'No' is selected), and 'Backup current version before reverting?' with radio buttons for 'Yes' and 'No' (where 'Yes' is selected). A 'Submit' button is located at the bottom right of the form.

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.

The screenshot shows the 'Basic Laboratory Information System' interface. At the top, there is a navigation bar with the system name and a user login status: 'Logged in as: testlab_admin | Edit Profile | Work as Technician | Logout'. Below this is a menu bar with options: 'Home', 'Lab Configuration', 'Test Catalog' (which is highlighted), 'Reports', and 'Backup Data'. The main content area is titled 'Specimen Types' and includes a 'Page Help' link. On the left, there is a sidebar with 'Specimen Types' and 'Test Types' links. The main area displays a table of specimen types with an 'Add New' link at the top. The table has three columns: an index, the specimen name, and an 'Edit' link.

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

Basic Laboratory Information System

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

[Home](#)
[Lab Configuration](#)
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New Specimen Type | [Cancel](#)

Name *

Description

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 (Streptococci)	<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 was 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.

Basic Laboratory Information System

Logged in as: testlab_admin | Edit Profile | Work as Technician | Logout

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

New Test Type | [Cancel](#)

Name *

Lab Section *

Serology

Description

Clinical Data [?]

Panel Test?
 ☐

Measures * [?]

Name *
 Type *
 Values *
 Unit / Default Value [?]

Numeric Range

 :

Add Sub Measure =>
 Add Another =>

Compatible Specimens * [?]

☐ 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

Hide Patient Name in Report

No

Prevalence Threshold

Target TAT

Cost To Patient

- USD

[User Guide](#) | [Comments?](#) | C4G ELIS v2.2 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | [English](#) | [Francais](#) | [Default](#)

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:



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

test patient

Search

No match found - Name test patient

If not this name 'test patient' Add New Patients»

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

Date of Registration

25

02

2013

(dd)

(mm)

(yyyy)

Patient Number

1

Name *

test patient

Gender *

☒ Male ☐ Female

Age

Only one of Age or Date of Birth is required for entry.

Years

Date of Birth

(dd)

(mm)

(yyyy)

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 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

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

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

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

[Page Help](#)

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

Patient Number *	<input type="text" value="3"/>
Specimen Type *	<input type="text" value="Aspirate"/>
Tests *	-Select specimen type first-
Lab Receipt Date *	<input type="text" value="25"/> - <input type="text" value="02"/> - <input type="text" value="2013"/> <small>(dd) (mm) (yyyy)</small>
Comments	<input type="text"/>
Physician	<input type="text" value="Dr"/> <input type="text"/>
Tots	<input type="text"/>
Referred Out?	<input type="radio"/> Yes <input checked="" type="radio"/> No

* Mandatory Field

[Add Another Specimen »](#)

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.

The screenshot displays the 'Basic Laboratory Information System' web application. At the top, a navigation bar includes links for Home, Registration, Results, Search, Reports, Inventory, and Backup Data. The 'Results' section is active, showing a sidebar with links for Single Specimen Results, Batch Results, Verify Results, and Worksheet. The main content area is titled 'Single Specimen Results' and features a search form with a dropdown menu labeled 'Patient Name', a text input field, and a 'Search' button. The footer contains version information and language options.

Basic Laboratory Information System

Logged in as: testlab_admin | Edit Profile | Work as Manager | Logout

Home | Registration | Results | Search | Reports | Inventory | Backup Data

Single Specimen Results

Batch Results

Verify Results

Worksheet

Single Specimen Results

Patient Name Search

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

Batch Results

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

Basic Laboratory Information System Logged in as: testlab_admin | Edit Profile | Work as Manager | Logout

Home | Registration | **Results** | Search | Reports | Inventory | Backup Data

Single Specimen Results
Batch Results
 Verify Results
 Worksheet

Batch Results

Test Type:

From: - -
(dd) (mm) (yyyy)

To: - -
(dd) (mm) (yyyy)

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

User Guide | Comments? | C4G BLIS v3.3 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | English | Français | Default

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.

Basic Laboratory Information System Logged in as: testlab_admin | Edit Profile | Work as Manager | Logout

Home | Registration | **Results** | Search | Reports | Inventory | Backup Data

Single Specimen Results
 Batch Results
Verify Results
 Worksheet

Verify Results

Test Type:

User Guide | Comments? | C4G BLIS v3.3 - 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.

Basic Laboratory Information System Logged in as: testlab_admin | Edit Profile | Work as Technician | Logout

Home Lab Configuration Test Catalog Reports Backup Data

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 Logged in as: testlab_admin | Edit Profile | Work as Manager | Logout

Home Registration Results Search Reports Inventory Backup Data

Single Specimen Results Batch Results Verify Results Worksheet

Worksheet

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

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 generate a list of matches.

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

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.

Basic Laboratory Information System

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

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

[« 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.

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

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.

The screenshot shows the BLIS web application interface. At the top, there is a header bar with the title "Basic Laboratory Information System" and a user login status "Logged in as: testlab_admin | Edit Profile | Work as Manager | Logout". Below the header is a navigation menu with tabs: Home, Registration, Results, Search, Reports, Inventory, and Backup Data. The "Backup Data" tab is currently selected. On the right side of the page, there is a "Page Help" link. The main content area features a text input field labeled "Code:" containing the text "asdf". To the right of the input field are two buttons: "Generate" and "Print". Below the input field, there is a "Remove" link and a barcode image. The barcode is labeled "asdf" at the bottom. At the very bottom of the page, there is a footer with the text "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.

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\Naomi\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*

User Guide | Comments? | C4G BLIS v3.4 - A joint initiative of C4G @ Georgia Tech, the CDC and participating countries | English | Français | Default

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.

The screenshot shows the 'Basic Laboratory Information System' interface. At the top, it says 'Logged in as: testlab_admin' with links for 'Edit Profile', 'Work as Technician', and 'Logout'. A navigation bar includes 'Home', 'Lab Configuration', 'Test Catalog', 'Reports', and 'Backup Data'. The left sidebar has 'Daily Reports' (Patient Report, Daily Log) and 'Aggregate Reports' (Prevalence Rate, Counts, Turnaround Time, Infection Report, User Statistics, Previous Inventory Data). The main area is titled 'Patient Report' and contains a 'Patient Name' dropdown, a text input field, and a 'Search' button. A 'Tips' box on the right says: 'Select Patient Name, Number or ID to retrieve patient's lab reports'. The footer contains links for 'User Guide', 'Comments?', 'C4G BLS v3.3', and a note about the system being a joint initiative of C4G @ Georgia Tech, the CDC, and participating countries. It also shows 'English' and 'Printable' options.

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.

Also patient barcodes for each patient with the number of specimens they have handed over can also be printed over a given a range of time by selecting the **Patient Barcode** option

The screenshot shows the 'Basic Laboratory Information System' interface. At the top, it says 'Logged in as: testlab1_admin' with links for 'Edit Profile', 'Work as Manager', and 'Logout'. A navigation bar includes 'Home', 'Registration', 'Results', 'Search', 'Reports', 'Inventory', and 'Backup Data'. The left sidebar has 'Daily Reports' (Patient Report, Daily Log) and 'Aggregate Reports' (Prevalence Rate, Counts, Turnaround Time, Infection Report, User Statistics). The main area is titled 'Daily Log' and contains 'From' and 'To' date pickers (both set to 16-09-2013), 'Records' radio buttons (Test Records, Patient Records, Patient Barcode), 'Lab Section' and 'Test' dropdown menus (both set to 'All'), and a 'Submit' button. A 'Tips' box on the right says: 'Print all records handled on a given day.' The footer contains links for 'User Guide', 'Comments?', 'C4G BLS v3.3', and a note about the system being a joint initiative of C4G @ Georgia Tech, the CDC, and participating countries. It also shows 'English' and 'Printable' options.

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.

The screenshot shows the 'Basic Laboratory Information System' interface. The top navigation bar includes 'Home', 'Lab Configuration', 'Test Catalog', 'Reports', and 'Backup Data'. The user is logged in as 'testlab_admin'. The left sidebar lists 'Daily Reports' (Patient Report, Daily Log) and 'Aggregate Reports' (Prevalence Rate, Counts, Turnaround Time, Infection Report, User Statistics, Previous Inventory Data). The main content area is titled 'Prevalence Rate' and contains a date range selector with 'From' (31/05/2012) and 'To' (25/02/2013) fields, and a 'Submit' button. A 'Tips' box on the right states: 'Select the date range to view the infection graph and prevalence rates.'

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.

The screenshot shows the 'Basic Laboratory Information System' interface. The top navigation bar includes 'Home', 'Lab Configuration', 'Test Catalog', 'Reports', and 'Backup Data'. The user is logged in as 'testlab_admin'. The left sidebar lists 'Daily Reports' (Patient Report, Daily Log) and 'Aggregate Reports' (Prevalence Rate, Counts, Turnaround Time, Infection Report, User Statistics, Previous Inventory Data). The main content area is titled 'Counts' and contains a date range selector with 'From' (31/05/2012) and 'To' (25/02/2013) fields, a 'Count Type' dropdown menu with options: 'Test Count (Ungrouped)', 'Test Count (Grouped)', 'Specimen Count (Ungrouped)', 'Specimen Count (Grouped)', and 'Doctor Statistics', and a 'Submit' button. A 'Tips' box on the right states: 'Select date range and type of count required.'

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

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default is completed tests only. The report opens in a new browser tab. It also generates a graph of the statistics.

The screenshot shows the 'Basic Laboratory Information System' interface. The top navigation bar includes 'Home', 'Lab Configuration', 'Test Catalog', 'Reports', and 'Backup Data'. The user is logged in as 'testlab_admin'. The left sidebar lists 'Daily Reports' (Patient Report, Daily Log) and 'Aggregate Reports' (Prevalence Rate, Counts, Turnaround Time, Infection Report, User Statistics, Previous Inventory Data). The main content area is titled 'Turnaround Time' and contains date selection fields for 'From' (31/05/2012) and 'To' (25/02/2013), an 'Include Pending Tests' checkbox (set to No), and a 'Submit' button. A 'Tips' box on the right advises selecting a date interval to view average test-wise turnaround times. The footer contains a 'User Guide | Comments?' link and version information.

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

The screenshot shows the 'Basic Laboratory Information System' interface with the 'Infection Report' section selected. The layout is similar to the previous screenshot, but the 'Lab Section' dropdown menu is visible and set to 'All'. The date range is the same (31/05/2012 to 25/02/2013). The 'Tips' box on the right advises selecting a date range and lab section to view the infection report. The footer is identical to the previous screenshot.

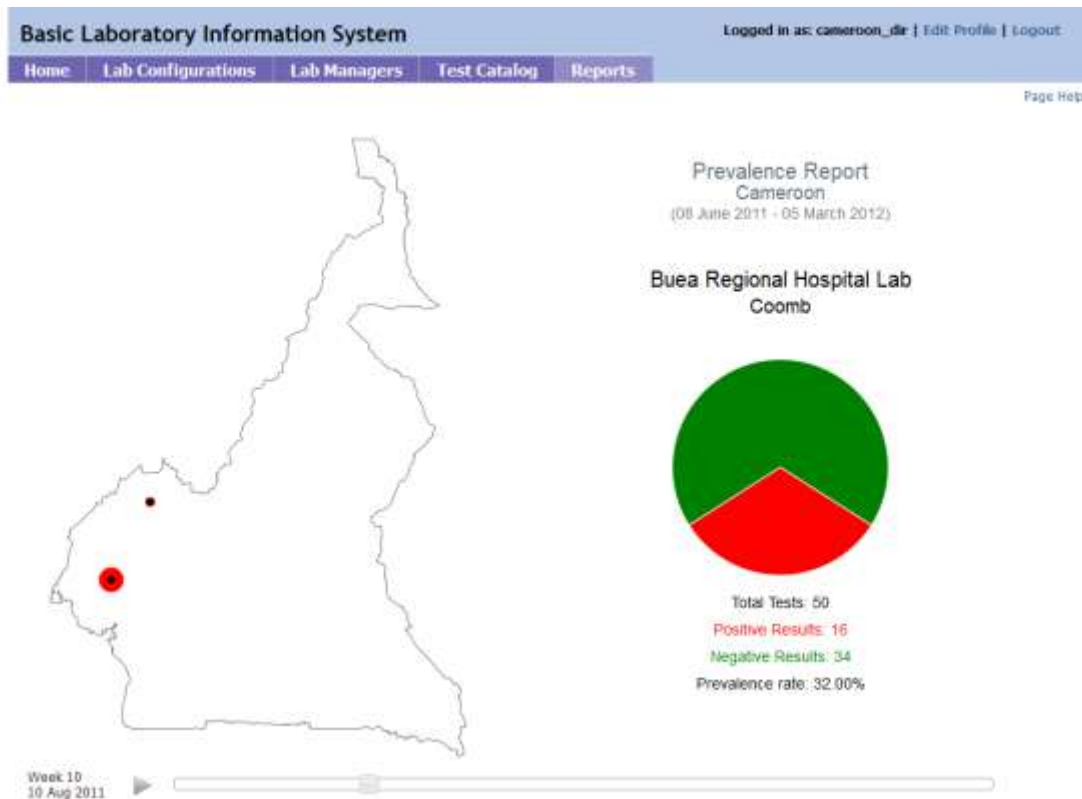
Reports for Country Director

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)

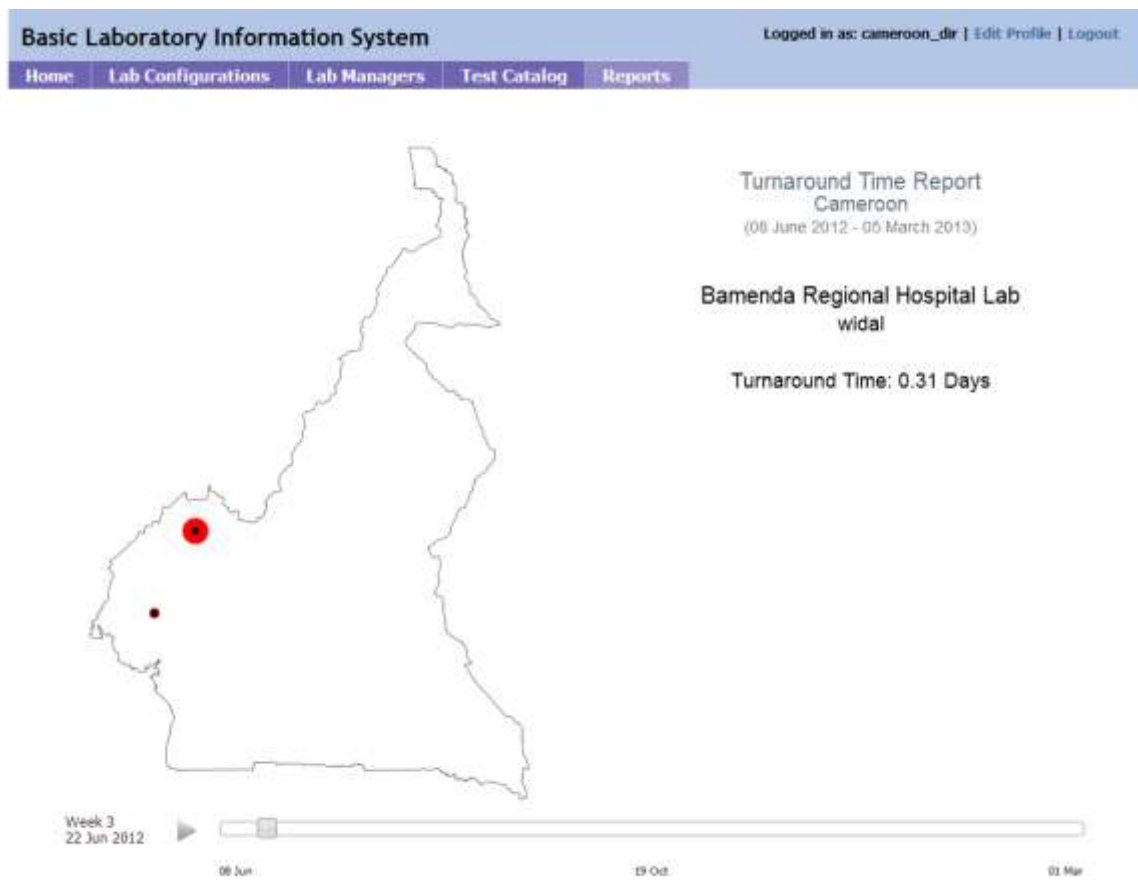
This report is available to country directors to allow them to view the trend of prevalence rate for various infections across the different labs in the country. Labs are displayed on the country map marked by black dots. These locations can be edited from Location Settings in the Reports section. The 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.)