



# **LDMS Training Guide for PHIA Specimens**

LDMS (Windows)









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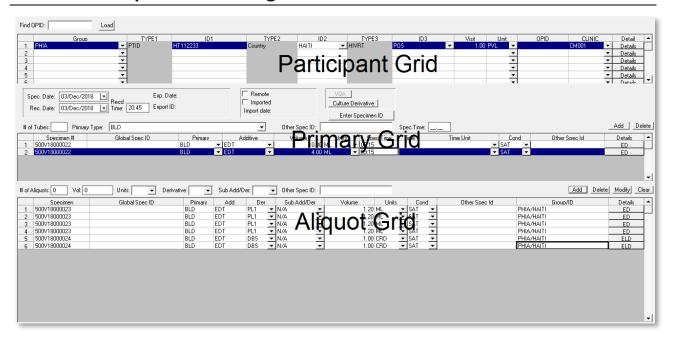
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## **Specimen Management**

REFER TO QUICK REFERENCE GUIDE FOR SPECIMEN MANAGEMENT

## **Overview of Specimen Management Screen**



#### The Participant Grid

- ID1: The participant identifier (PTID). Validation checks run on this field.
  - 8 characters in length (XXNNNNNN format, XX=country code)
  - Scanned into field from Specimen Tracking Form label
- ID2: Country code; auto-selected based on PTID scanned
- ID3: HIVRT; hard-coded list of HIV status codes [POS, NEG, IND)
  - Indicated on Specimen Tracking Form
- Visit: auto-populated by preload.
  - Visit code 1.0
  - Visit code 1.1 for very, very rare redraws
- Visit Unit: auto-populated by preload.
  - PVL (plasma viral load)
  - DVL (DBS viral load)
- Clinic: IDs for satellite labs in each country (XX001, XX002, etc., where XX=country code)

#### The Primary Grid

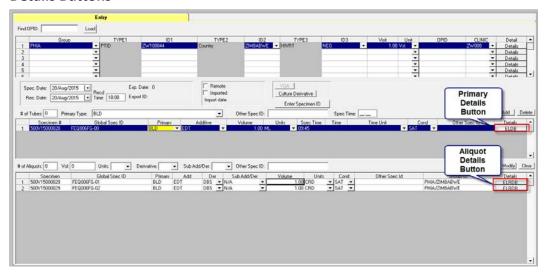
- **Control H**: This action can be performed on the preloaded combo boxes (e.g., Primary, Additive, etc.) in Specimen Management, to display a full description of the information
- Specimen Date: Date collected from participant; indicated on Specimen Tracking Form label
- **Specimen Time**: Enter the time the sample was collected from the participant; indicated on Specimen Tracking Form label
- **Condition**: The condition of the primary will be defaulted to SAT (satisfactory).
- Global Specimen ID
  - Unique identifier
  - Used in Shipment QA/QC
  - No two sample tubes should ever have the same Global Specimen ID on label

Primary Global Specimen ID: EC2007GP-00
Aliquot Global Specimen ID: EC2007GP-01-99

#### The Aliquot Grid

- Reprint Labels: In right-click menu, select Print Labels for All Aliquots or Selected Aliquots
  - When using the selected aliquot feature double check the global specimen id
- **Condition**: Condition codes are used in the event not all expected specimens are collected or if the amount of specimen is less than expected. The condition of the aliquot will be defaulted to SAT (satisfactory). Adjust as necessary, see section below for further explanation.

#### **Details Buttons**



#### Primary Details Button

- Comments: Enter applicable comments
- **Condition** If the condition of the primary tube is anything other than satisfactory, select the proper code from the Condition box.

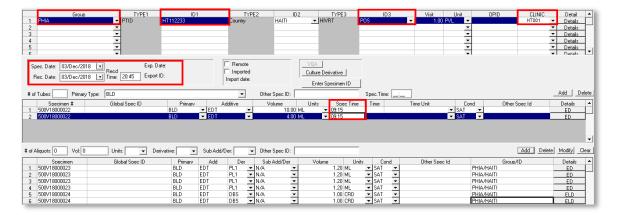
#### Aliquot Details Button

- Condition If the condition of the primary tube is anything other than satisfactory, select the proper code from the Condition box.
- Comments: Enter applicable comments

**Note**: The Aliquot Details dialog box collects and displays all the information from other modules of LDMS in one menu

### **Exercise 1: Specimen Entry with Preload**

The Data Managers for PHIA have worked with Frontier Science to add preloads to the LDMS which assist in specimen entry. The preload will make entries for all expected specimens based on the age of the participant and the draw type indicated on the sample tracking form. In this example the preload will be triggered when the user moves from the ID2/Country field.



1. In the Participant Grid, enter the following information

**Group** PHIA

PID scan into field from Specimen Tracking Form

**Country** auto-selected based on PTID scanned

The preload menu will appear. Select the preload in the dropdown menu, click **OK**.

HIVRT HIV field results

Visit Value/ Visit Units determined by preload

Clinic satellite lab ID (XX001, where XX=country code)

2. In the Primary Grid, enter the following information from the Specimen Tracking Sheet

**Specimen Date** 

**Received Date** 

**Received Time** 

**Specimen Time** 

- 3. Click the Add button on the LDMS toolbar.
- 4. Click **Enroll** in the message box that appears.
- 5. Click **OK** in the Save message.
- 6. In the labels menu, Select a format and label size, and then click **Yes** on the dialog box.

The Crystal Reports window will open displaying the specimen labels.

Repeat this exercise for other specimens on your training Sample Tracking form. Disregard any draw issues at this time we will discuss this in the next exercises.

#### **Condition codes**

The condition code will always default to **SAT (Satisfactory)**. Any specimen collection that deviates from the expected draw on the specimen tracking form is recorded by adjusting the condition codes and adding comments. Comments are recorded in the Details menu.

#### **Volume Condition codes:**

SNC (Sample not Collected): Add Comments in the Details button to explain why

QNS (Quantity not Sufficient): use for empty plasma samples and empty DBS cards

For extra labels / tubes - return these to LDMS tech, so records can be updated with the QNS condition code

#### SHV (Short Volume): use as follows:

- Plasma: <0.8 mL Note: Always need 1.2 mL aliquot #1 for Viral Load testing
- DBS cards:

3-5 spots: SAT1-2 spots: SHV0 spots: QNS

#### Other Condition Codes:

- HEM Hemolyzed
- CLT Clotted
- LIP Lipemic

## **Exercise 2: Using condition codes**

After processing the specimens, issues may come to light on the quality and/or quantity of the samples. In this example, after processing one of the plasma aliquots could not be created and another is <0.8 ml.

1.	Select one of the participant's accessioned in Exercise 1.
	PTID:
2.	For plasma aliquot 3 (ie03) the volume is 0.5 ml. Which condition code should you use?

- 3. **Update** the condition code for aliquot -03
- 4. Plasma aliquot 4 is empty as the technologist did not have enough sample to create it. Which condition code should you use? \_\_\_\_\_\_
- 5. Update the condition code for aliquot -04
- 6. **Review** the pop up messages
- 7. Click the **Save** button on the LDMS toolbar.
- 8. In the Print Labels menu, click No.

### **Exercise 3: Incomplete Draw**

During an adult venous draw the vein collapses and only the 4 mL tube was collected. The patient refused a second draw. The following is entered in LDMS:

1. In the Participant Grid, enter the following information

**Group** PHIA

PID scan into field from Specimen Tracking Form

**Country** auto-selected based on PTID scanned

The preload menu will appear. Select the XX VEN 4ML ONLY preload (XX =country code)

HIVRT HIV field results

Visit Value/ Visit Units determined by preload

Clinic satellite lab ID (XX001, where XX=country code)

2. In the Primary Grid, enter the following information from the Specimen Tracking Sheet

**Specimen Date** 

**Received Date** 

**Received Time** 

**Specimen Time** 

- 3. Enter a comment in the Primary Details button and cascade noting the refused draw and your initials.
- 4. Click the **Add** button on the LDMS toolbar.
- 5. Click **Enroll** in the message box that appears.

Note: The same condition code rules apply after processing. If aliquots are short volume or QNS, the specimen record will be updated

## **Searching for Specimens**

Use one of the following methods to search for specimens in your lab database

#### Scanning an LDMS-generated barcode

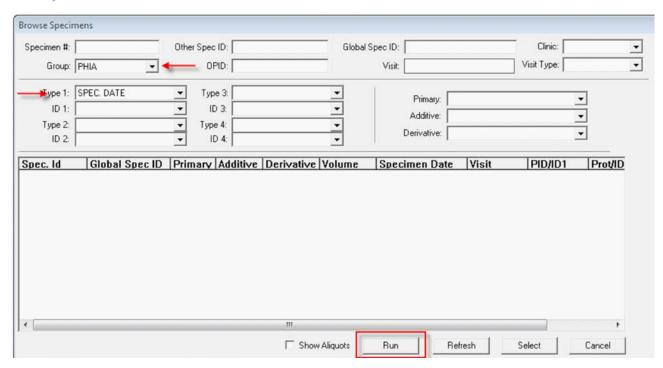
1. The user must be in the specimen management screen



- 2. Choose one of your aliquots created during the exercise above.
- 3. Scan the barcode

**Navigation buttons** 

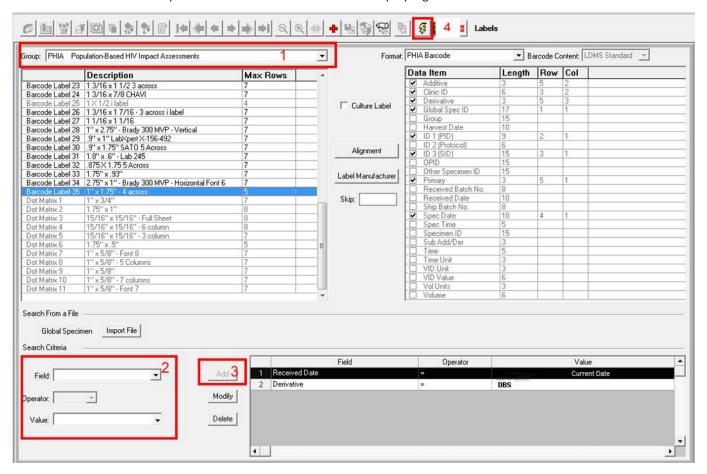
#### Browse feature



- 1. Click the **Browse** button on the LDMS toolbar
- 2. Set the Group field to PHIA
- 3. In the Type 1 field select Spec Date
- 4. In the ID1 field select a Spec Date from the exercises above
- 5. Click Run

## **Labels Module**

Use this module to create duplicate DBS labels for the outside of the polybags.



1. In the Group drop down menu, select PHIA

2. Enter the search criteria:

Field: Received Date Field: Derivative

Operator: '=' Operator: '='

Value: Current Day Value: DBS

3. Click Add after each Value is set

4. Click Execute.

The external labels window will appear with all of the DBS specimens received that day, click print and close window.

## **Storage Management**

REFER TO QUICK REFERENCE GUIDE FOR STORAGE MANAGEMENT

### **Storage Overview**

The Storage module is separated into several pages. These tabs are listed below with a brief description of the functions contained in that page.

- Main View: Allows you to view the contents of freezers, levels and containers, and to add boxes into storage.
  - By clicking on the + sign, a level can be expanded to see its components
  - Dependent upon the level box or rack the Execute button displays a 2-D view of that level
- Move: Allows you to move specimens and containers from one storage unit to another.
- Configuration/ Freezer Cfg: The Storage Structure has already been configured by PHIA administration.
- Bulk Add Allows you to add a large group of specimens to storage.
  - Specimen barcodes can also be scanned for direct add to a container
  - Highlight the desired box name, then scan the specimen barcode
- **Search**: Allows you to find the exact storage positions of specimens and print a report of their location. This feature only searches for specimens currently stored.

## **Exercise 1: Adding containers into Storage**

Containers must be added in the LDMS in order to assign storage positions to the samples. When racks are filled the box names can be adjusted to note the current container in the rack position. All PHIA boxes must be labeled with the colored labels provided by the study on the top and bottom of the container.

- 1. Highlight a level to add the new container to.
- 2. Click the **Add** button on the LDMS toolbar.
- 3. Click Container.
- 4. The Storage Add dialog box appears. Select either PHIA Plasma or PHIA DBS box
- 5. Enter number of boxes
- 6. Type in the box name from the colored labels on the container:

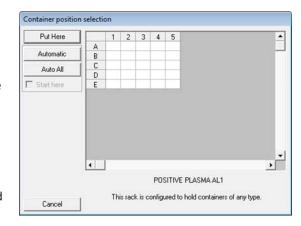


<Sample Type> dash<HIVRT result> <aliquot\*> <clinic ID> <Box #>

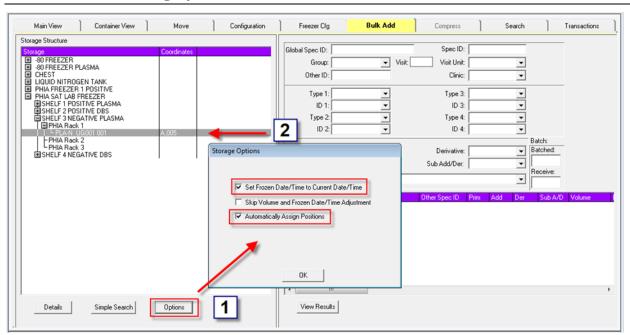
Examples: PLA-P AL2 XX203 0028 PLA-N XX203 0074 (XX=country)

\*Aliquot number is for positive samples only (CC200BPL-02, is aliquot 2)

- 7. The **Position Selection Menu** appears. The options are:
  - Put Here Choose the exact location for the specimen or container.
  - Automatic Allow the LDMS to choose the next available position based on the fill order of the level or container.
     You will be prompted each time if storing multiple specimens or containers.
  - Auto All Allow the LDMS to choose the next available
    position of all the selected specimens or containers based
    on the fill order of the level or container.



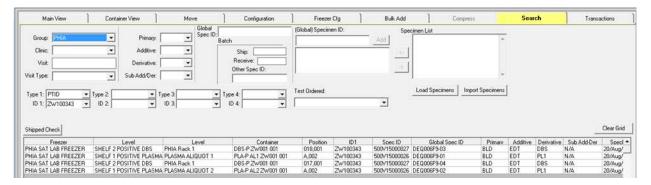
## **Exercise 2: Adding specimens in Bulk Add**



- Set Storage Options to Automatically Assign Positions, Set Frozen Date/Time should already be selected
- 2. Highlight the Box you wish to add specimens
- 3. Scan specimen barcode with your scanner, place item into container

## **Exercise 3: Searching for specimens in Storage**

Use the Storage Search tab to search for the exact position of specimens in storage.



- 1. Set the Group field to PHIA
- 2. In the Type 1 field select PTID
- 3. In the ID1 field enter in a PTID from the sample tracking form
- 4. Click Run
- 5. Click the **Report** button on the LDMS toolbar.
- 6. Close the Crystal Reports window.

## Exercise 4: Using barcodes to locate a specimen's position

The LDMS barcode can be scanned to locate a specimen in the storage structure on the Main View tab.

- 1. Go to the Main View tab in Storage
- 2. Scan a specimen barcode

#### **Exercise 5: Container Details button**

Use the Details button at the bottom of the Storage Structure to rename the container and mark containers to ship.

#### Part 1: Rename container

- 1. Click to select the box added in Exercise 1
- 2. Click Details
- 3. Enter a new name for the container/box in the Name field
- 4. Click Modify

#### Part 2: Marking a Storage Item for Shipping

- 1. Highlight a container with specimens
- 2. Click **Details**
- 3. Click **Mark to Ship**. An envelope icon appears next to the storage container that has been marked for shipping.

Mark full boxes with "X" on box label

#### Notes on Marking to Ship:

Once a storage item is marked for shipping, its contents cannot be modified.

To change the contents of a marked container: Open the details menu, click Unship (the envelope icon will disappear). The contents of the box can be changed.

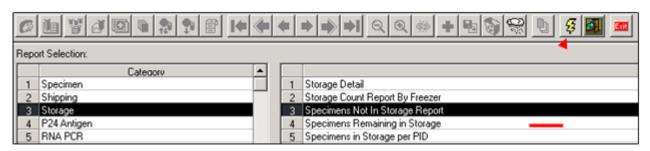
The LDMS will not allow a storage item that has already been added to a shipping batch to be marked for shipment

## **Reports**

The Reports module contains many pre-defined reports separated by category.

## **Exercise 1: Specimens Not in Storage Report**

Generate this report every day. Reconcile until all specimens have a storage location or the status code is updated to QNS or SNC.



Specimen	s Not in Stor	age Report								
Searched on: Gre	oup = PHIA									
Group/Prot: Pl Specimen ID	HIA UGANDA Global Spec ID	Pid/ld1	Spec Date	Pri	Add	Der	Sub A/D	Vid	Volume	Condition
410V16000146	AC2006FP-01	UG123458	05/Oct/2015	BLD	EDT	PL1	N/A	1.00 DVL	1.00 ML	SAT
410V16000013	AC2006H1-01	UG123479	05/Oct/2015	BLD	EDT	PL1	N/A	1.00 Vst	1.00 ML	SAT
410V16000029	AC2006HK-01	UG123487	05/Oct/2015	BLD	EDT	PL1	N/A	1.00 Vst	1.00 ML	SAT
410V16000122	AC2006KF-01	UG123516	05/Oct/2015	BLD	EDT	PL1	N/A	1.00 EID	1.00 ML	SAT
410V16000130	AC2006KP-01	UG123520	05/Oct/2015	BLD	EDT	PL1	N/A	1.00 PVL	1.00 ML	SAT
44004400000004	AC200CMU 04	110422549	05/04/2015	DLD.	COT	DI 4	NUA	1.00 004	1.00 14	CAT

#### **For Evening Shift**

1. In Report Selection:

**Category**: Storage

**Report**: [3] Specimens Not in Storage

2. Enter the following search criteria:

Field: Derivative

Operator: '='
Value: PL1

3. Click Add

4. Click Execute

#### **For Day Shift**

After DBS cards have been scanned in, click the **Execute** button to run the report with **NO** search criteria

#### **Common issues**

- 1. Specimens are on processing bench
- 2. Empty aliquots not set to QNS
- 3. Duplicate entry in Specimen Mgmt

4. Specimens missed scanning in Bulk Add

## **Exercise 2: Resolving a duplicate entry**

When reviewing the Specimens Not in Storage Report a set of specimens is included on the report. There are no specimens left on the bench and it is very likely a duplicate entry. Follow the steps below to reconcile the report.

- 1. In Specimen Management, Click the **Browse** button on the LDMS toolba
- 2. Set the Group field to PHIA
- 3. In the Type 1 field select PTID
- 4. In the ID1 field enter the PTID from the Specimens Not in Storage report
- 5. If two sets of specimens are present, open one of the records and see if the specimens are stored.
- 6. For the unstored specimens, Set the **Primary** condition code to **SNC** (cascade to aliquots)
- 7. Open Primary Details window and enter a comment noting this was a duplicate entry
- 8. If there is another primary (ie. 10 and 4 ml draw) update this specimen
- 9. Rerun the Specimens Not in Storage report

## **Exercise 3: Specimen Log Report (QNS report)**

This report provides the user with a list of all aliquots the lab has logged into their LDMS with the condition code QNS for a specific date.

PID/ID1	Group/Prot		SID/ID3	VID		Clinic	OPID			
NG555555	PHIA NIGERIA		NEG	1.00	EID	NG000				
Primary Spec ID	Global Spec ID	Spec Time	Spec Date	Rec Date	Primary Volu	me/Unit	Time/Time U	Init Other Spec ID	Comments	
350V18000019	DAA006JJ-00	07:00	27/Apr/2018	27/Apr/2018	1.00 ML					
Aliq Spec ID	Global Spec ID	Other Spec ID	Pri/Add	Der / Sub A/D	Current Volume	Cond	Grp/Prot	Test(s) Ordered	Shipped	Comments
350V18000020	DAA006JJ-02		BLD/EDT	DBS / N/A	1.00 CRD	QNS	PHIA NIGERIA	None	No	

1. In Report Selection:

Category: Specimen

**Report**: [3] Specimen Log Report

Enter the following search criteria:Field: Specimen Date

Operator: '='

Value: current date

Field: Condition Operator: '='

Value: QNS

Click Add
 Click Execute

## **Exercise 4: Time to Freeze QA/QC Summary**

This report provides the user with a summary of the Draw Dates and Times, Frozen Dates and Times, Specimen Types and the calculated amount of time from the time of draw to the freezing start time. This report should be run for plasma specimens.

PHIA Tim	PHIA Time To Freeze QA/QC Summary									
Searched on:	Searched on: Specimen Date = 03/Dec/2018									
Note: Time to freeze values marked with an asterisk (*) are higher than the expected value (1440 minutes)										
					Time to freeze					
<u>Patid</u>	Draw date	Draw time	Frozen Date	Frozen Time	(minutes)	<u>Tech</u>	<u>Additive</u>	<b>Derivative</b>	<u>Comments</u>	
HT112233	03/Dec/2018	09:15	03/Dec/2018	22:00	765		EDT	PL1		
HT123456	03/Dec/2018	09:25	03/Dec/2018	22:00	755		EDT	PL1		

1. In Report Selection:

Category: PHIA

**Report**: [1] PHIA Time to Freeze QA/QC Summary

2. Enter the following search criteria: Field: Specimen Date

Operator: '='

Value: current date

- Click Add
   Click Execute
- 5. In the pop-up window select Plasma and click OK.



## **Shipping**

#### REFER TO QUICK REFERENCE GUIDE FOR SHIPPING

Use the Shipping module to batch specimens for shipping, prepare shipping files, view shipping history and print shipping related reports.

### **Shipping Overview**

The Shipping module is separated into several pages. These tabs are listed below with a brief description of the functions contained in that page.

- View Shipment: displays history of shipments, generate Manifest Report and Container Report, and generate LDMS shipping file
- **Setup Shipment**: this tab is used to search your lab database for marked containers to ship. Only boxes marked to ship will be available to add to your shipment
- Shipment Destination: select your country's central lab in the drop down menu or typing the lab number
- Import: This tab is used by the Central Lab to Process the shipment
- **Shipment QA/QC**: This tab will display the container contents. The user will scan the LDMS barcode to ensure the physical item matches the item on the manifest

## **Exercise 1: Create a new shipping batch**

Generate shipping batches each day to limit number of boxes being shipped. Follow these guidelines when setting up a new batch:

- 12 or less boxes per batch
- One batch for NEG plasma boxes
- One batch for NEG DBS boxes
- One batch for all POS specimens
- 1. In the View Shipments tab, select the bottom, blank row from the batch listing
- Change to the Setup Shipment tab. At the prompt box, select Storage Items
   Note: If you click the wrong button, use the Refresh button to return to the prompt box
- 3. To add a storage item to the batch, click to highlight the marked storage item in the **Items Marked in Storage** listing and click **Add to Batch**. One or more containers may be highlighted at one time.
- 4. Change to the **Shipment Destination** tab.
- 5. Under Lab Number type in the Central Lab ID of
- 6. Select a contact at the laboratory.
- 7. Set a contact at sending lab.
- 8. Click the **Add** button on the LDMS toolbar.

## **Exercise 2: QC shipping batch**

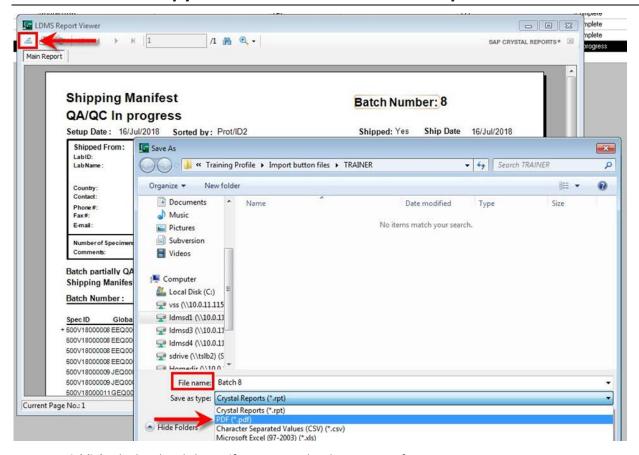
This process confirms the shipment contents by using the LDMS barcode

- Use the manifest report button in View Shipment tab to create dummy manifest report and close Do not print
- 2. Change to QA/QC tab
- 3. Enter in Tech initials
- 4. Start in the first container on the batch and **scan** the following positions
  - Plasma A1, C2, F4, G9
  - DBS one random card each box
- 5. **Continue** to next container and repeat
- 6. Click the **Save** button
- 7. The View Shipment tab will always display In Progress
- 8. Perform QC on any remaining batches

## **Exercise 3: Shipping file and documents**

- 1. Select **LDMS** from the **Shipment Type** box.
- 2. Click **Ship**. The Attention message appears.
- 3. Click **OK**. A message appears asking you to verify that you wish to ship the batch.
- 4. Click Yes to create the shipment, or click No.
- 5. Select the appropriate temperature from the **Select Temperature** menu and click **OK**. The Select Drive dialog box appears.
- 6. Click C:\ and click OK. (This file will later be transferred to a thumb drive)
- 7. At the success message click **OK**.
- 8. Generate the required paperwork. Only the first page is printed. See next exercise
  - a. Highlight the batch. Click Manifest Report. The Shipping Manifest appears.
  - b. **Close** the Crystal Reports window.
  - c. Click **Shipping Container Report**. The Shipping Box Report appears.
  - d. **Close** the Crystal Reports window.

### Exercise 4: PDF copy of manifest and container report



- 1. Highlight the batch. Click Manifest Report. The Shipping Manifest appears.
- 2. In the Crystal Reports window. Click the **Export** button.
- 3. In the Save As window. Go to the folder in the C:\ drive with the LDMS Shipping file
- 4. Change Save as type to PDF
- 5. Enter filename: Batch [Shipment number] manifest
- 6. Click Save. Close Crystal Report window.
- 7. Highlight the batch. Click Container Report. Repeat process to save PDF.

## **Exercise 5: Storage clean up**

#### Part 1: Removing shipped specimens

After the specimens are shipped their positions in storage are reserved. Before a new box can be added to the rack, the shipped specimens must be removed.

- 1. In **Storage**, click the **Search** tab.
- 2. Click **Shipped Check**. The Ship Check dialog box appears.
- 3. Leave the date range blank
- 4. Click **OK**. The Storage dialog box appears notifying you that there are currently specimens in storage that have been shipped within the specified range of dates, and confirming if you wish to remove the specimens from storage.

5. Click Yes.

### Part 2: Renaming the box

After a box is shipped to the central lab, its position in the rack is now empty. When it is time to add a new box into that position, use the details button to change the box name.

- 1. Click to **select** the shipped box.
- 2. Click Details
- 3. Type in the name from the box label in the Name field
- 4. Click Modify

## **Test Result Entry Module (TREM)**

REFER TO QUICK REFERENCE GUIDE FOR TREM

This module manages the lab workflows of the Household Tester QC, Pima, and Geenius bench. The LDMS will calculate which specimen's need further testing, provide worksheets, and capture the results.

### **Exercise 1: Adding the Household Tester ID**

Each PTID entered in the LDMS will be given a row in the TREM. After adding the Household Tester ID for the PTID, the LDMS will calculate which specimens must be sent to the QC bench.



- 1. From the Tools menu select Test Result Entry
- 2. In the **Results Tab**, select the **template** in the drop down menu.

Note: The user will be entering data in the Results tab. The Template tab is for PHIA admin use only.

- 3. In Filter Criteria, set the Household Tester filter to 'not set'
- 4. Click Load Result
- 5. Refer to your specimen tracking form. Add the household tester id to each PTID
- 6. Click the **Save** button

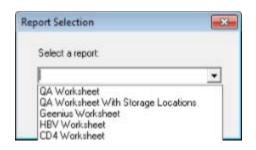
	PTID	HIVRT	VID	Household Tester	QΑ	Geenius Tester	QA Tester	CD4 Don	e CD4 Tester	CD4	Geenius		Determine	Unigold	Final Result
1	999999	NEG	PVL	ABC123	Υ 🕶			N	<b>-</b>		N/A	▼	▼	•	•
2	■T888888	NEG	PVL	ABC123	ΥΨ			N	-		N/A	▼	▼	▼	-
3	<b>7777777</b>	NEG	PVL	ABC123	Υ •			N	-		N/A	▼	▼	-	▼
4	<b>■</b> [666666	POS	PVL	ABC123	ΥΨ			Υ	-			▼	▼	-	-
5	■T555555	NEG	PVL	ABC123	ΥΨ			N	-		N/A	▼	▼	-	-
6	<b>444444</b>	POS	PVL	ABC123	Υ •			Υ	-			▼	▼	*	-

## **Exercise 2: Generating worksheets**

Worksheets are created to organize and record the test results at the bench. These are then returned to the LDMS and entered into the system.

- 1. If starting from previous exercise, click Clear Filters
- 2. Click Load Results

- 3. Click the **Report** button on the LDMS toolbar.
- 4. From the menu select one of the following reports:
  - a. QA Worksheet
  - b. Geenius Worksheet
  - c. CD4 worksheet
- 5. Click OK
- 6. The Crystal Reports window will open. We will not be printing the worksheets for this exercise. Close after viewing worksheet



#### **Filters**

As the study progresses, the number of participants in the TREM will grow. It will be necessary to use the filters in order to organize and manage the increasing number of rows.



Household Tester: Displays all specimens by the unique Household Tester ID; not set will display new specimens that

need Household Tester to be entered

QA/QA Tester: QA status is Y or N; QA Tester displays all specimens by unique tester ID; For entering QA results,

set QA status to Y and QA tester to not set. After loading results, click the PTID header to sort (see

image)

QA Discrepancy: QA discrepancy is Y or N; setting the filter to Y will show all specimens with a discrepancy and the

remaining QA fields (Report Date, Time) can be completed once the lab supervisor has been

notified.

Geenius: Set Geenius Tester to not set, then click twice on the HIVRT header to bring the POS specimens to

the top

CD4: Set CD4 Tester as not set and CD4 Done to Y

After setting the filters, apply them to the list by clicking Load Results.

Reset the filters by clicking Clear Filters

## **Exercise 3: Adding Results**

When the worksheets are returned from the bench, the results are added into the TREM

	PTID	HIVRT	VID	Household Tester	Q	Α	Geenius Tester	QA Tester	CD4 Dor	ne	CD4 Tester	CD4	Geenius		Determine		Unigold		Final Re	esult
1	HT 999999	NEG	PVL	ABC123	Υ	•		XYZ999	N	•			N/A	•	NR	v l	N/A	<b>+</b>	NEG	•
2	HT 888888	NEG	PVL	ABC123	Υ	•		XYZ999	N	•			N/A	•	NR	v	N/A	▼	NEG	•
3	777777	NEG	PVL	ABC123	Υ	•		XYZ999	N	•			N/A	•	NR	•	N/A	▼	NEG	•
4	H# 666666	POS	PVL	ABC123	Υ	•	DEF456	XYZ999	Υ	•	GHI789	1850	P HIV-1	•	R	•	R	▼	POS	•
5	HI 555555	NEG	PVL	ABC123	Υ	•		XYZ999	N	•			N/A	•	NB	Ţ.	N/A	<b>-</b>	NEG	-
6	444444	POS	PVL	ABC123	Υ	•	DEF456	XYZ999	Υ	•	GHI789	3625	P HIV-1	•	R	▼	R	¥.	POS	-

#### Part 1: QA results

1. Set the following filters

• QA '

• QA Tester Not set

• PTID PTID from worksheet

- 2. Check the PTID, and click on the **QA Tester** field and **enter** the **tester ID**.
- 3. Use the tab key to move the cursor to the **first household test, enter result**.
- 4. [If needed] Use the tab key to move to the remaining tests and enter results.
- 5. Set the Final Result.
- 6. Click the **Save** button

#### Part 2: Geenius results

- 1. Set the following filters
  - **HIVRT** POS (or IND)
  - Geenius Tester Not set
- 2. Check the PTID, and click on the Geenius Tester field and enter the tester ID.
- 3. Use the tab key to move the cursor to the Geenius field, select results from drop down menu.
- 4. Click the Save button

#### Part 3: CD4 results

- 1. Set the following filters
  - HIVRT POS (or IND)
  - CD4 Tester Not set
- 2. Check the PTID, and click on the CD4 Tester field and enter the tester ID.
- 3. Use the tab key to move the cursor to the CD4 field, enter result
- 4. Click the Save button

## [Optional] Exercise 4: QA Discrepancy

If the QA bench findings differ from the household tester, further investigation must occur and a NCE form is completed. Record the date and time the form was completed.

- 1. For a QA result set a Final Results that differs from the HIVRT.
- 2. The QA Discrepancy field populates with 'Y'. The QA Report Date and Time fields will open
- 3. Complete fields. Note: the date format is dd/mmm/yyyy
- 4. Click the Save button

## **Backing up the LDMS**

LDMS automatically creates a backup of the database once per day at Noon and places it in:

#### C:\fstrf\backup

In this folder you will find a file named: [LabID]\_[year][month][day].BK If there are files in this folder that end with something other than .BK, this indicates the backup has failed. Please contact LDMS User Support.

The most recent file is to be copied daily to a thumb drive provided by ICAP. The thumb drive should be stored in a secure location separate from the laptop.

The backup is created automatically but a new file can be generated in the LDMS using the following steps

- Click Administration > Backup Tracking from the LDMS menubar
- Click the Create Backup button in the upper-right corner
- A Windows command prompt window will open. This is the backuptool.
- Wait until the backup tool finishes creating the backup

## **LDMS User Support**

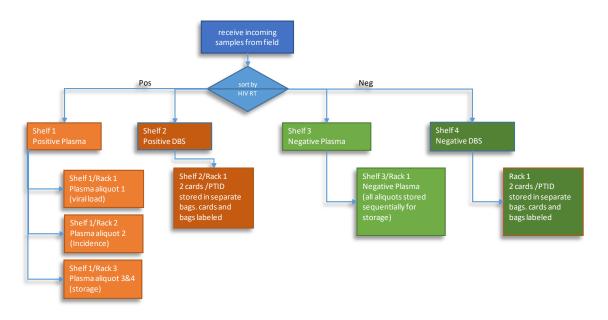
LDMS User Support is available 24/7 except for some US national holidays:

E-mail: ldmshelp@fstrf.org Phone: +1 7168340900 x7311

In all communications with LDMS User Support, include the Lab ID, which is printed on the outside of the laptop.

When emailing User Support please cc Melissa Metz: mm33@cumc.columbia.edu

# **Appendix I: Storage overview**



Storage	Coordinates	
☐ PHIA SAT LAB FREEZER ————		→ Freezer
SHELF 1 POSITIVE PLASMA		→ Shelf
□ PLASMA ALIQUOT 1		Rack
	A,005	Container
□PLASMA ALIQUOT 2		
	A,005	
☐ PLASMA ALIQUOT 3,4		
│	A,005	
■ SHELF 2 POSITIVE DBS		
PHIA Rack 1	A 005	
LDBS-PHT001 001	A,005	
PHIA Rack 2 PHIA Rack 3		
SHELF 3 NEGATIVE PLASMA		
BHIA Rack 1		
T - PLA-N HT001 001	A,005	
PHIA Rack 2	7,000	
PHIA Rack 3		
■ SHELF 4 NEGATIVE DBS		
■ PHIA Rack 1		
T □DBS-N HT001 001	A,005	
- PHIA Rack 2		
PHIA Rack 3		

# **Appendix II: Preloads**

Country (ID2)	Preload Name	Description								

# **Appendix III: LDMS Lab Numbers**

LDMS Lab	Lab Name