

# User Manual Labcare V 3.0.1

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GENRAL LAB MODULE

**P S Solutions**

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## Table of Contents

<b>1. Work Area</b>	<b>2</b>
1.1 Login Screen	2
1.2 Sample Acceptance	3
1.3 Send To Outside Lab	4
1.4 Receive from Outside Lab	5
1.5 Worksheet	6
1.5.1 Work Sheet	6
1.5.2 Easy Worksheet	7
<b>2. Account</b>	<b>8</b>
2.1 Test Statistics	8
2.2 Profile Statistics	9
<b>3. Result Entry</b>	<b>11</b>
3.1 Routine Tests – Result Entry	11
3.2 Memo Tests – Result Entry	15
3.3 Tests Wise – Result Entry	16
<b>4. Machine</b>	<b>17</b>
4.1 Machine Setting	17
4.2 Add Machine HOST Code	17
4.3 Locate Parameter	18
4.4 Labcare Link	19
<b>5 General</b>	<b>19</b>
5.1 Pending Test	19
5.2 Test List	20
5.3 General Reports	20

## 1. Work Area

### 1.1 Login Screen



- After double clicking on Labcare Short cut available on user desktop user will see this screen as Login Screen of Labcare application.
- From center option user has to select main center, according to which users will be loaded for particular center.
- This is the login screen of Labcare software. Only authorized users can log on to the system.
- The user has to select the user name and enter the password then click on "OK" to proceed.
- If the user name or password is wrong then the user will be prompted to enter the correct username or password. If it is an authorized user then the registration screen will be opened.
- On clicking the cancel button the application ends.

## 1.2 Sample Acceptance

Sample Module will be used for accepting the sample in concerned department before proceeding for sample processing. User can open this window by going to **"Work Area"** menu available in Labcare and choosing **"Sample Acceptance"** option. Sample acceptance ensures the sample can be used to performing the requested test(s) for the patient.

The screenshot shows the 'Sample Acceptance' window. At the top, there are search filters: Date (set to 09/12/2016), LabNo, Sample Type (set to All), and Stat. Below these are dropdowns for Sample Status (set to Sample Received) and Category (set to < All >). A search button is on the right. The main area is divided into two tables. The left table, titled 'Total Patient(s) [5]', lists patients with columns for LabNo, Visit Date, and Patient Name. The right table lists tests with columns for Test Name, Category, Profile Name, Colorcode, and Outs. On the right side of the window are four buttons: 'Accept' (with a green checkmark icon), 'Reject' (with a red X icon), 'Undo Acceptance' (with a hand icon), and 'Close' (with a blue arrow icon). There is also a 'Select All' checkbox at the bottom right.

LabNo	Visit Date	Patient Name
200000057	12/12/2016	Test
200000047	11/12/2016	Alain Testing Machine
200000046	11/12/2016	Test
200000045	11/12/2016	Test
163000044	11/12/2016	dummy testing centre

Test Name	Category	Profile Name	Colorcode	Outs
Food Allergens Panel	ALLERGY	Package		N
Inhalation Allergens Panel	ALLERGY	Package		N
Protein electrophoresis	ELECTROPHORE	Package		N

- After receiving, the sample is sent to work area, the concerned technologist accepts and checks the sample.
- User can search patient registration by typing in the patient ID in the Patient ID field
- User can also search based on test category and sample status as well.
- In the sample status, 'Received' will be selected by default.
- In Case of any mistake of Accidental acceptance user can undo accept the sample by changing sample status from Sample Collected to Sample Received and Load Patients then click on "Undo Accept" button.
- User can reject a sample by clicking the **"Reject"** button. On clicking this button, a box will appear where the user has to mention the appropriate reason for rejection. (E.g. Sample hemolyzed, Sample not sufficient etc.)
- This module allows user to enter user generated patient accession no. (If any).
- User can make sample processing as Outside Lab by selecting Outside Lab **"N"** & **"Y"** and Selecting an Outside Lab.

### 1.3 Send To Outside Lab

This window is used for sending samples to any outside lab for processing. user can open this window by going to **“Work Area”** menu available in labcare and choosing **“Send to Outside Lab”** option.

**Send To Outside Lab**

Outside Lab: < All > ☐ Edit Transaction **Advance Search**

From: 18/12/2016 00:00:00 To: 21/12/2016 00:00:00 Outside Lab: < All > Client: < All >

Department: < All > Category: < All > Test/Profile: < All >

☐ Select All Set to Outside Lab Mediclinic **Set**

PatientID	Date	PatientName	Test Name	Outside Lab	Profile Name
<input type="checkbox"/> 18000059	19/12/2016	Khalifa Machine Testing	Albumin		
<input type="checkbox"/>			GTT /75 gm Glucose (Pregnancy)		
<input type="checkbox"/> 18000033	18/12/2016	Test Count Stats	Calcitonin	National Reference Laboratory	
<input type="checkbox"/>			E.histolytica /Giardia Ag test	National Reference Laboratory	
<input type="checkbox"/>			Cryptosporidium/Giardia Ag test	National Reference Laboratory	
<input type="checkbox"/>			5-Hydroxy Indol Acetic Acid Test		
<input type="checkbox"/>			7 + Alc-Unbund		
<input type="checkbox"/>			7 Drug-Unbund		
<input type="checkbox"/>			Acetylcholine Receptor ABS		
<input type="checkbox"/>			Acid Phosphatase		
<input type="checkbox"/>			Adiponectin (Serum )		
<input type="checkbox"/>			AFB Culture (Other than Sputum)		
<input type="checkbox"/>			Alcohol (Ethylalcohol) (NaFluoride Sample)		
<input type="checkbox"/>			Aldolase	National Reference Laboratory	

**Show** **Close** **Report** **Print** **Send** **Upload Report**

- Click on Show button to load the outside tests
- User can change the outside referral lab by using Set button
- Click on Send button to update the send outside status
- Click on “Report” to get the list report of Sample being sent outside for processing

## 1.4 Receive from Outside Lab

This window is used for receiving the reports from Outside for the sample which will be sent to any outside lab for processing. user can open this window by going to **“Work Area”** menu available in labcare and choosing **“Receive Form Outside Lab”** option.

**Receive From Outside Lab**

Outside Lab: < All > ☐ Edit Transaction **Advance Search**

From: 18/12/2016 00:00:00 To: 21/12/2016 00:00:00 Client: < All >

Department: < All > Category: < All > Test/Profile: < All >

☐ Select All

	PatientID	Date	PatientName	Test Name	Outside Lab	Profile Name
<input type="checkbox"/>	180000057	19/12/2016	Test	7 Drug-Unbund	National Reference Laboratory (N	
<input type="checkbox"/>				Acid Phosphatase	National Reference Laboratory (N	

**Show** **Close** **Receive**

Mark Status:  
☒ Received  
☐ Complete  
☐ Print

**Upload Report**

- All sample sent to outside lab will be available in this window for selected criteria
- If reports have arrived in lab from outside, select the patient and click on **Receive** button
- Click on "Mark Print" to get printout for list of received reports
- Click on "Upload report" to attach outside report in pdf format as shown below :



- Click on Browse button to browse the pdf file
- Click on Hide button to close the window
- Click **“Receive”** to set the status as Received from Outside Lab

## 1.5 Worksheet

### 1.5.1 Work Sheet

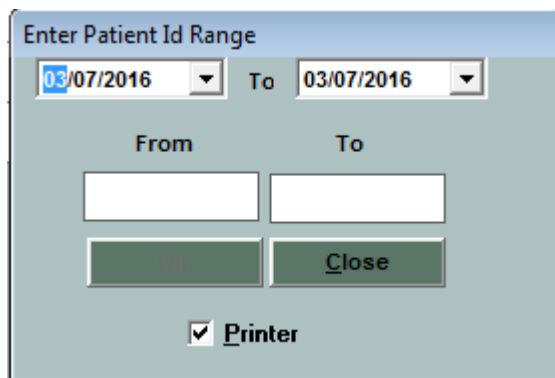
User can open this window by going to **“Work Area”** menu available in Labcare and choosing **“Work Sheet”** under **“Worksheet”** option. Using this window user can generate following worksheet:

- I. Category wise worksheet
- II. Test wise worksheet
- III. Parameter wise worksheet

- Select the date Range
- Select the main centre and category
- Click on **"Load"** button to load the tests
- From – To numbers will load automatically in textbox
- Click on **"OK"** button to see the easy worksheet
- Click on ☒ "Printer" option to take print out

### 1.5.2 Easy Worksheet

User can open this window by going to **"Work Area"** menu available in Labcare and choosing **"Easy Worksheet"** under **"Worksheet"** option.



The screenshot shows a dialog box titled "Enter Patient Id Range". It features two date selection fields at the top, both showing "03/07/2016". Below these are two empty text boxes labeled "From" and "To". At the bottom of the dialog are two buttons: "OK" and "Close". A checkbox labeled "Printer" is checked, indicating the option to print the worksheet.

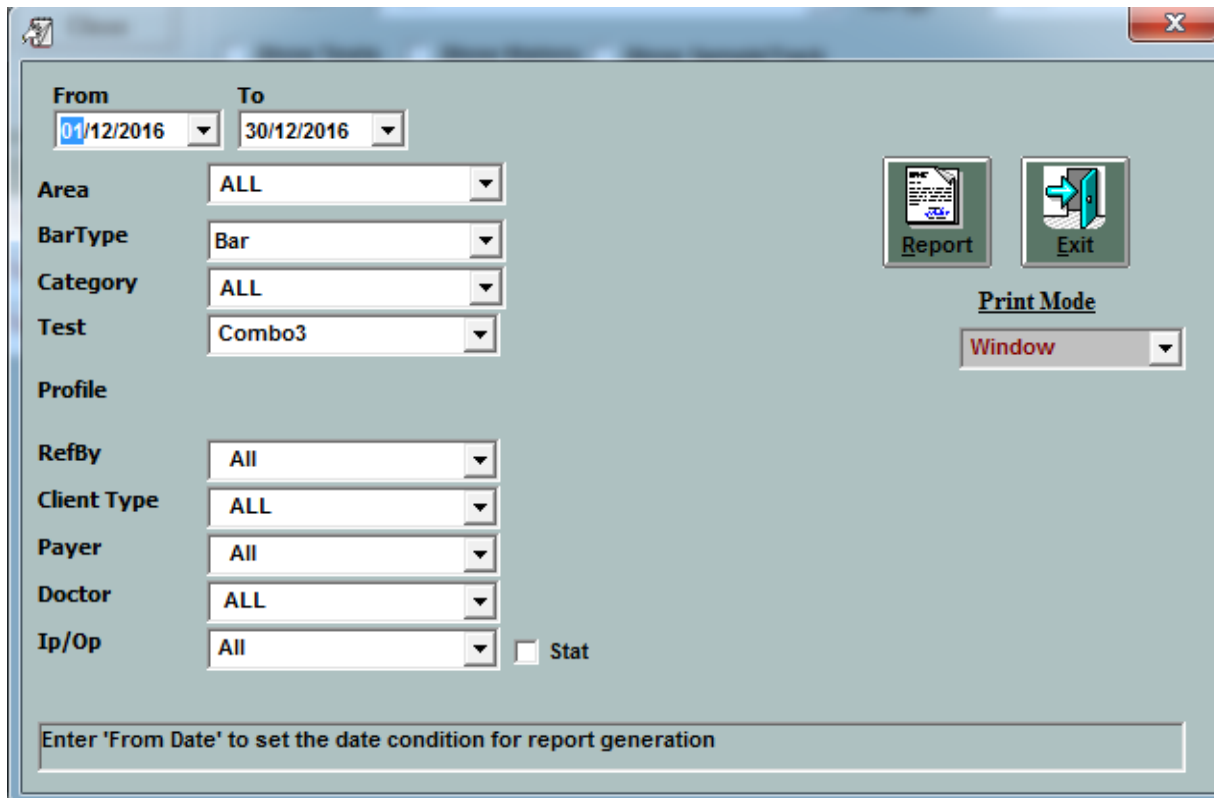
- Enter From & To patient ID to print worksheet
- Click on ☒ "Printer" option to print the work sheet



## 2. Account

### 2.1 Test Statistics

User can open this window by going to “**Account**” menu available in Labcare and choosing “**Test Statistics**” option.



The screenshot shows a software window titled "Test Statistics" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains several dropdown menus for filtering data:

- From:** 01/12/2016
- To:** 30/12/2016
- Area:** ALL
- BarType:** Bar
- Category:** ALL
- Test:** Combo3
- Profile:**
- RefBy:** All
- Client Type:** ALL
- Payer:** All
- Doctor:** ALL
- Ip/Op:** All

There is a checkbox labeled "Stat" which is currently unchecked. To the right of the filters are two buttons: "Report" (with a printer icon) and "Exit" (with a door icon). Below these buttons is a "Print Mode" section with a "Window" dropdown menu. At the bottom of the window is a text box containing the instruction: "Enter 'From Date' to set the date condition for report generation".

- Select the date criteria
- Select the Area like system
- Select the Bar type to get different type of graph
- Select the category
- Select the test to particular test statistics report

G:\Data\HARD\DISK\VA\PS\PS\_code\W&D code\PS\_BASIC\NEW\_LATEST\CODE\_PS\newcode\xxxxxx\MAIN\PROGRAM\REPORTS\teststat32.rpt

1 of 1+ 100% Total: 1280 100% 1280 of 1280

TESTWISE STATISTICS	
Date From : 01/10/2011 To : 30/12/2011	
Test Name	Occurance
NA	
<b>CHEMISTRY</b>	
Bilirubin(Direct)	1
Bilirubin(Total)	1
Sodium (Na) in Serum	1
<b>MICROBIOLOGY</b>	
Rotavirus Antigen	1
Stool Examination	1
<b>UBT KITS</b>	
1 Kit UBT	1
	<b>6</b>
<b>Adhic Insurance Company</b>	
<b>CHEMISTRY</b>	
Alanine Aminotransferase (ALT)	37
Albumin in Serum	6
Alkaline Phosphatase	11
Aspartate Aminotransferase (AST)	33
Beta Human Chorionic Gonadotrophin	11
Bile Acids Total in Serum - {BS}	1
Bilirubin(Direct)	5
Bilirubin(Total)	7
Blood Urea Nitrogen (BUN)	5
C-Reactive Protein (CRP) quantitative	6
Calcium in Serum (Total)	23
Cholesterol/HDL/LDL/Triglycerides	23
Creatinine in Serum	27
Estradiol (E2)	2
Follicular Stimulating Hormone (FSH)	2
Gamma Glutamyl Transferase (GGT)	25
Glucose in Plasma (Fasting)	16
Glucose in Plasma (Random)	41
Glucose Tolerance Test-OGTT (100g)	1
Glycated Haemoglobin (HbA1c)	12

## 2.2 Profile Statistics

User can open this window by going to **"Account"** menu available in Labcare and choosing **"Profile Statistics"** option.

- Select the date criteria
- Select the Area like system
- Select the Bar type to get different type of graph
- Select the category
- Select the test to particular test report

From: 01/12/2016 To: 30/12/2016

Area: ALL

BarType: Bar

Category: ALL

Test: Combo3

Profile: ALL

RefBy: All

Client Type: ALL

Payer: All

Doctor: ALL

Ip/Op: All

☐ Stat

Report Exit

Print Mode

Window

Enter 'From Date' to set the date condition for report generation

### 3. Result Entry

#### 3.1 Routine Tests – Result Entry

In this section of result entry user can enter routine results by selecting specific patient and click on “**Result**” button show in search window of Labcare, type results along with result comparison like High (H), Low (L), Critical Results (HH/LL) etc...

- I. The patient's results for the tests selected during registration having routine tests will be entered using this module.
- II. Select the patient whose result entry has to be done and click on ‘**Result**’ button or double click the patient whose result entry has to be done. All the visit details along with test selected will be displayed in the right hand side grid. Select the ‘Test’ from the test drop down whose results have to be entered. Click on select button.
- III. The parameters for the selected test will be displayed in the grid below and the status (Pending/Complete) of the test will be displayed in the status box.
- IV. Against each parameter in the value column the user can enter results.

- V. The help value if any for a parameter will be displayed on the top right corner.
- VI. Double click on the help value to select it in the grid. If any new Help Value has to be added, type the value in the result column, and press Ctrl, the value will be added to the previous help value list.
- VII. After the results are entered the user can click on ‘Mark Complete’ or ‘Mark Pending’ buttons depending on whether the result entry is completed or pending.

LabNo 180000091 Next 28/12/16 Doctor Dr. KOTACHERY JANARDHANA SHENOY 38 YEARS / Male

Patient Name Khalifa Machine Testing

Category ALL

Tests Potassium, Random Urine

Status Pending

ReCollect

View Report

Parameter Name Result Low

Potassium, urine 20

Pending Comment

Save

LABCARE - Reception

Specify comment for making Result Pending

OK

Remarks...

Comments

Close

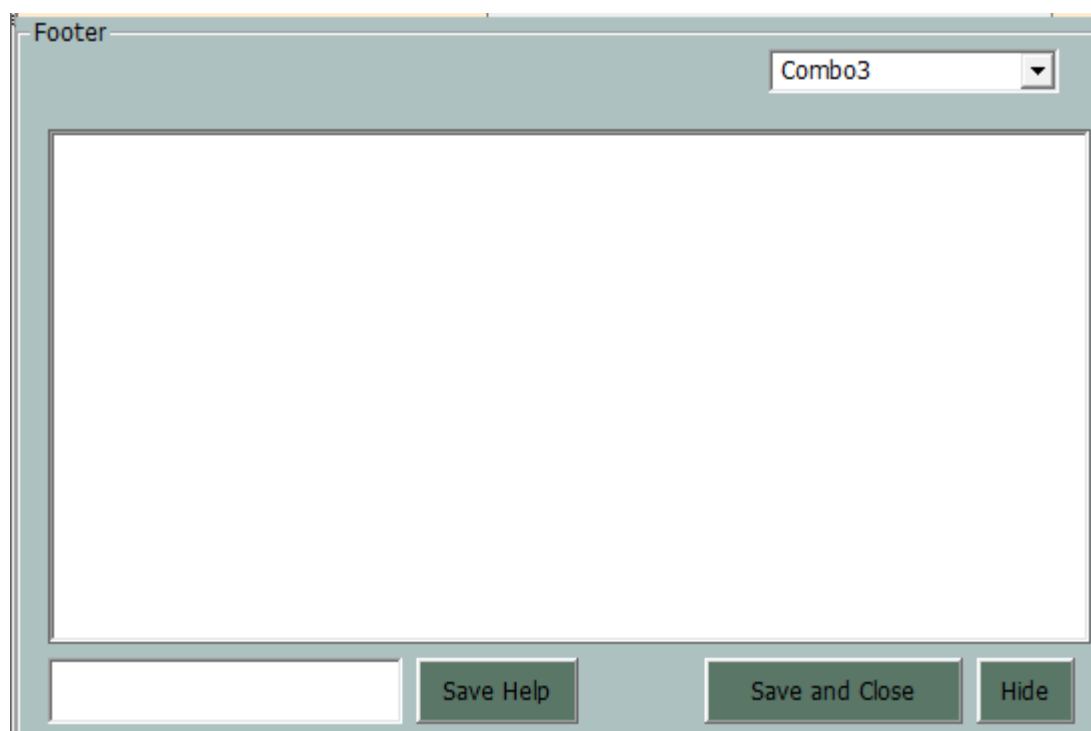
Load Image

Complete Pending Cancel Press F10 for Machine data, F5 for parameter comment

Browse(JPEG) Save

Delete All Images Delete Selected Image Total Images-

- VIII. On clicking "Pending" button, the user will be asked to enter a comment. This is to mention reason for marking test as pending for other users to view. Also, the status of the test will change to 'Pending'.
- IX. If some wrong entry is done the user can click on 'Cancel' button to cancel the entry.
- X. Click on default button to enter default values for the parameters.
- XI. Click on 'Test Comment' button to enter comments if any for the selected test.
- XII. Click on 'Remarks' button to enter remarks if any.
- XIII. After the results are marked as complete, the user can click on reports button to print the report. Select the report style from the drop down below the report button; by default 'ALL' is selected. If the 'Printer' box is checked then report will be sent directly to the printer else the report will be shown on the window.
- XIV. Once the report is displayed on the Screen or sent to printer for printing, a box appears confirming for marking the test printed for the current Format. If 'Yes' is selected, the patient status will be marked as 'Printed' and if 'No' is selected, the patient status will remain 'Completed' for the tests but report will be shown authenticated. If the status is printed, the user won't be able to take a reprint from this option and if the status is Completed, then the user can take a print out again.
- XV. Press F5 to add remark for parameter.



- a. Click on Save Help to add new save help values.
- b. Enter the remark and click on Save and Close button
- c. Click on Hide button to hide the window

XVI. Press F10 to view QC results.



User can view QC result by pressing F5 key

XVII. Press F4 to view Normal range and change the Normal range

XVIII. In Any case if sample requires recollection user can click on “**Recollect**” button.

Parameter Normal Range

dummy al noor

16 Years/M

Save For Patient Only Close

Param Normal Range			
ParamName	Param Low	Param High	Param Normal
Red Cells	0	0	0 - 3 /HPF

Unit  Footer

Machine

Param Normal Range							
	Days [ > ]	Days [ < ]	Sex	Conv Low	Conv High	Conv Normal	Cri Normal
*							

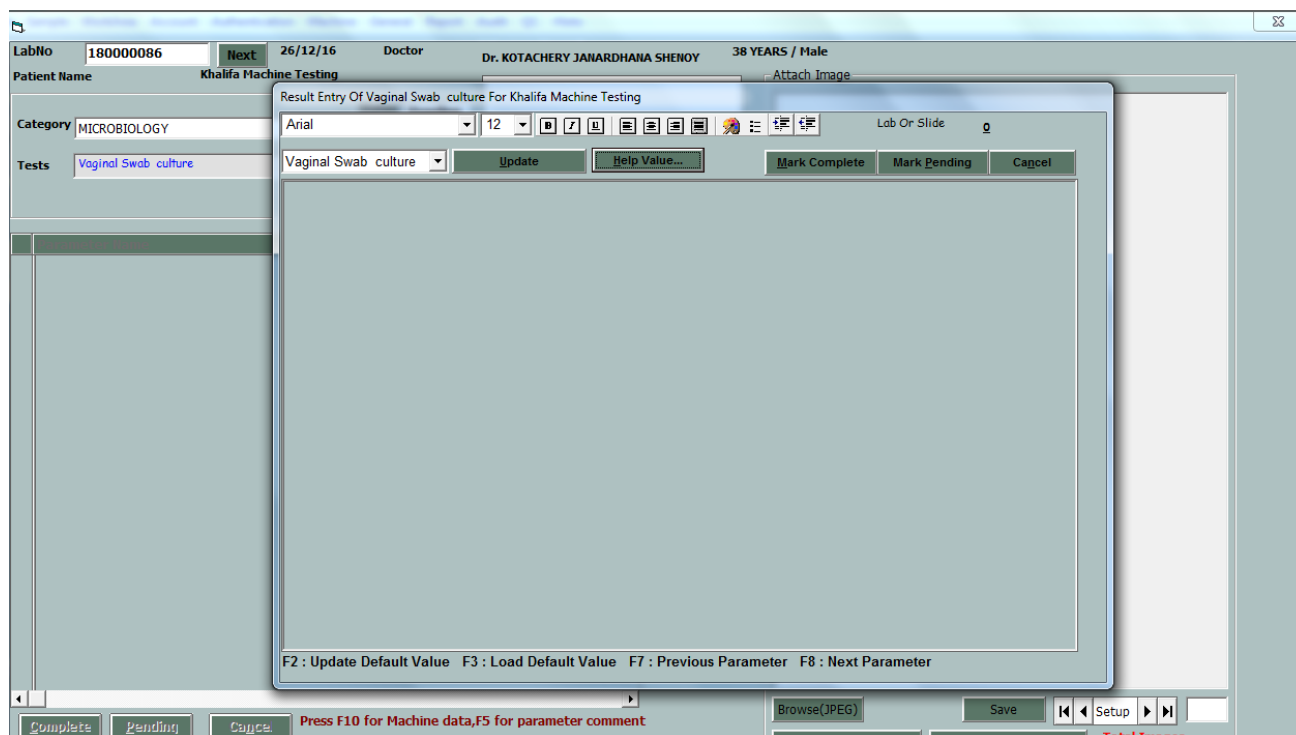
Update

- BY pressing F4 key user can view reference range.
- Click on "Save For Patient Only" button to modify ref range for a particular patient
- Click on "Save In master and for patient" to modify ref range in master and patient both.

## 3.2 Memo Tests – Result Entry

In this section of result entry user can enter Descriptive results by selecting specific patient and click on **“Text Report”** button show in search window of Labcare, type results along with words formatting like Bold, Italic, and Underline etc...

- I. For memo tests, when the user clicks on **“Select”** button, the provision to enter descriptive result for the test will be displayed as show below :



- II. The user can select the font name, font size and other basic text editing options.
- III. Click on 'Save Help' button to save the current entered descriptive result for the current test as Help Value. The current entered descriptive value once saved as Help Value will be available for further patients.
- IV. After entering the descriptive result for the selected test, the user can click on 'Mark Complete' to update status as complete or click on 'Mark Pending' to update the status as pending.
- V. Click on 'Cancel' button to cancel the entered descriptive result and close the screen. The short cut keys are displayed for the user below the descriptive result entry box.
- VI. Click on 'Update' button to save the descriptive result entered. Click on 'Help Value' button to get the help value of the selected test.
- VII. While selecting a Help Value, by default, the View option is checked. If the user wants to select only a particular page from the Help Value, the View option has to be unchecked, & the Enter key is pressed, a window will open up & the user will be able to select a particular page from the list.



### 3.3 Tests Wise – Result Entry

In this section of result entry user can enter patients test results for specific test by clicking on **“Test wise Result Entry”** button show in search window of Labcare, type results along with result comparison like High (H), Low (L), Critical Results (HH/LL) etc...

- I. The parameters for the selected test & selected Patient will be displayed in the grid below and the status (Pending/Complete) of the test will be displayed in the status box.
- II. Against each parameter in the value column the user can enter results.
- III. The help value if any for a parameter will be displayed on the left hand bottom corner. Double click on the help value to select it in the grid. If any new Help Value has to be added, type the value in the result column, and press F3, the value will be available next time when you are entering for that particular parameter.
- IV. After the results are entered the user can click on 'Mark Complete' or 'Mark Pending' buttons depending on whether the result entry is completed or pending.
- V. If some wrong entry is done the user can click on 'Cancel' button to cancel the entry.
- VI. Click on default button to enter default values for the parameters.
- VII. Click on 'Test Comment' button to enter comments if any for the selected test.
- VIII. Click on 'Remarks' button to enter remarks if any.
- IX. After the results are marked as complete, the user can click on reports button to print the report. Select the report style from the drop down below the report button; by default 'ALL' is selected. If the 'Printer' box is checked then the report will be sent directly to the printer else the report will be shown in the window.
- X. Once the reports are displayed on the Screen or send to printer for printing, a box appears confirming for marking the test printed for the current Format. If 'Yes' is selected, the patient status will be marked as 'Printed' and if 'No' is selected, the patient status will remain 'Completed' for that tests. If the status is printed, the user won't be able to take a Reprint from this option or if the status is Completed, then the user can take a print out again.

## 4. Machine

### 4.1 Machine Setting

This Option will be used for specifying the Machine Name Available in Lab which are interfaced to LIS, user Can Open this window by Selecting **“Machine Setting”** option available under **“Machine”** menu in Labcare. Purpose of this module is to facilitate the machine configuration to be used in middle ware application **“Labcare Link”** which will act as communication bridge between LIS and the analyzer.

Date	Centre	Patient ID	Patient	File No	Admission No.	Mobile	CalcTotalRate
25/06/16	AL DHAFRA	965600014	dummy ar 2	0000	ANH28304		0
26/06/16	Daman Thiq	965600017	dummy patient		ANH28309		0
26/06/16	CENTRAL LAB	965600021	dummy patient		ANH28313		0
27/06/16	CENTRAL LAB	965600028	Example xyz		ANH28324		0
28/06/16	CENTRAL LAB	965600029	AlNoorpatient		ANH28326		0
28/06/16	AIRPORT ROAD	965600030	ANHpatient	123456	ANH28327		0
28/06/16	AIRPORT ROAD	965600031	Patient A		ANH28331		0
29/06/16	AIRPORT ROAD	965600032	abcd eg		ANH28332		0
29/06/16	AIRPORT ROAD	965600035	Patient Anh		ANH28337		0
30/06/16	CENTRAL LAB	965600036	Person G		ANH28338		0
30/06/16	AIRPORT ROAD	965600037	Abcd Add		ANH28339		0
02/07/16	AIRPORT ROAD	965600038	Dummy patient		ANH28340		0
02/07/16	AIRPORT ROAD	965600039	Patient Alnoor	5 Years	ANH28341		0
02/07/16	AIRPORT ROAD	965600041	Noor Pat	42 Years	ANH28343		0

- This application will be used for interfacing with Medical equipment's
- To add new machine or to edit settings such as baud rate, port number this window can be use
- User can add / edit or delete equipment details
- Select the machine and Click on Add machine Id to add new machine parameter
- Select the machine and Click on Locate parameter to map LIS parameter with machine parameter

### 4.2 Add Machine HOST Code

By using this user can add Machine host codes to be mapped in LIS for Orders and Result Receiving of the Parameters, user can open this window by clicking **“Add Machine ID”** available in Machine Master window.

- Click on Add button to add new machine parameter
- Click on Edit button to edit the parameter
- Click on Delete button to delete the machine parameter

Machine Master

Machine Test Codes

Machine: COBAS6000

Machine ID: 412

ID Description: ALBC2

Buttons: Add, Edit, Delete, Close

### 4.3 Locate Parameter

Transfer

Machine: COBAS6000

LIS Parameter: TSH (Thyroid Stimulating Hormone)

Multiply: 1, Rounding: 2, Suffix:

Transfer: Y, Assay No. 1, Sample Type:

Category:

Buttons: Locate, Delete, Close

In this window user can map machine host code with available LIS parameters. By clicking on machine code dropdown window equipment parameters will displayed.

Against each host code user can define LIS parameter from the window below Parameter Name, after that click on "Locate" button. Back button will close this window.

## 4.4 Labcare Link

The screenshot shows the 'Labcare Link' application window. The title bar indicates it is opened for 'SUPERUSER'. The window is divided into several sections:

- Search Criteria:** Includes dropdowns for 'From' (19/12/2016), 'To' (21/12/2016), and 'Machine' (SAXO). There are 'Search' and 'Close' buttons.
- Labno:** A text input field.
- Source:** A dropdown menu showing 'ALNOOR\_KH'.
- Results Table:** A table with columns: Parameter, Result, Primary, Secondary, Tertiary. The title is 'Results For: 180000078'. The rows are:
 

Parameter	Result	Primary	Secondary	Tertiary
Direct coombs Test				
Indirect coombs Test				
Cross matching				
ABO and Rh type				
- Table:** A table with columns: Lab No, Patient Name, FileNo.
 

Lab No	Patient Name	FileNo
180000062	Blood Bank Testing_1	500000025
180000064	Khalifa Machine Testing	500000024
180000078	Khalifa Machine Testing	500000024
- MachineID:** A text input field.
- Date:** A text input field.

This application will act as a communication bridge between LIS and Machine, in order to keep communication active (Receive Results/Send Order) this application must be closed always.

## 5 General

### 5.1 Pending Test

The screenshot shows the '(LAB CARE +) Daily Reports' window. It contains the following fields and options:

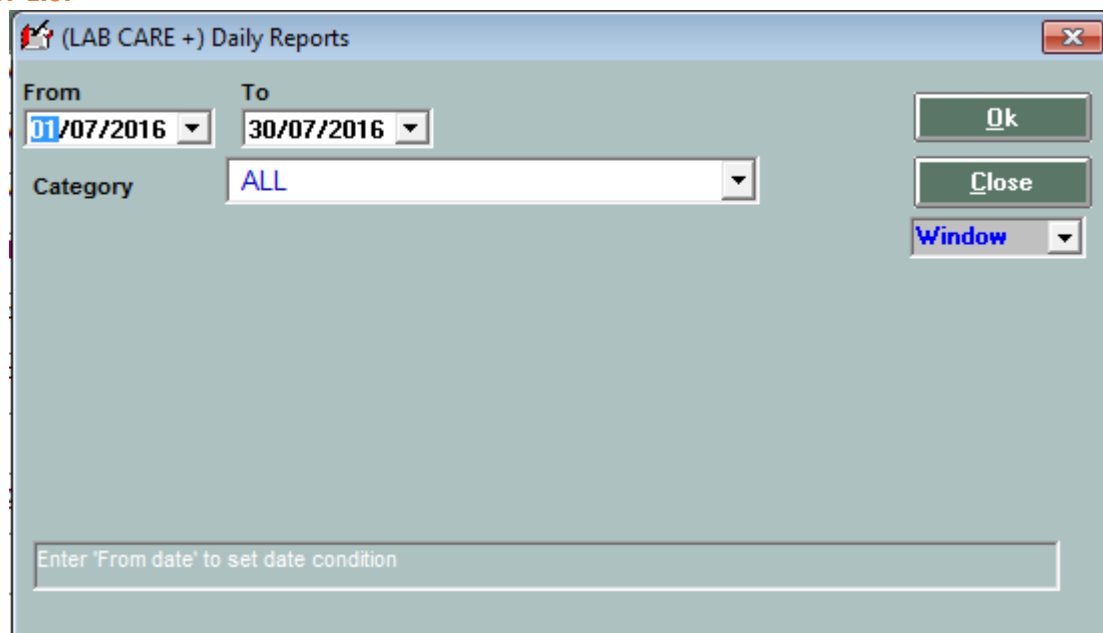
- From:** 31/12/2016 00:00:00
- To:** 31/12/2016 00:00:00
- Source centre:** All
- Department:** CLINICAL PATHOLOG
- Status:** D-Registered
- Category:** ALL
- Pending Tests:**
  - ☒ All Jobs
  - ☐ Outside Samples
  - ☐ Only Processing
  - ☐ Stat Samples
- Up to Date:** 31-12-2016
- Buttons:** Select Job >>, Give Reason >>, Ok, Close, Window

User can open pending test window by selecting **"Pending Test"** option available under **"General"** Menu in Labcare. This window is used for generating the pending

test report by specifying different filter criteria like Visit Date, Department, Test, urgent Sample etc...

- Select the date criteria.
- Select the category.
- Click on Ok button to print pending test report.
- Give Reason option is used to enter the reason for pending tests

## 5.2 Test List



This option is use to get list of all test.

## 5.3 General Reports

User can open this window by selecting “**General Reports**” option available under general menu of Labcare. This basically facilitate user to get the run time statistics like Registration statistics, critical results reports etc...these are the custom reports available as per user demand.

- Select the date criteria.
- Click on “**Reports**” button to print custom report.

