



Smart Lab

Clinical Laboratory Management Software

****Developed by Ekoders Software****

Features Overview

1) General

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- 1.2) Single screen Report Processing
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- 1.4) In-Built investigations and tests along with details
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- 1.6) Test result selection with simple dropdown
- 1.7) Test addition (Unlimited), edit, remove
- 1.8) Investigation package creation
- 1.9) Barcode generation and label printing
- 1.10) Cash Receipt printing
- 1.11) Investigation wise detailed bill printing (For payment claiming)
- 1.12) House Visit Appointments
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- 9.1) Laboratory Display System (Separate single screen for lab display with report status)
- 9.2) CBC Analyser Integration (LIS) (3 Part, 5 Part, 6 Part)
- 9.3) Mobile App for Owners/Managers

1. General

1.1) Login System

Smart Lab is using highly encrypted algorithm to secure the application and data. New users can be created with password in User Master.

1.2) Single screen Report Processing

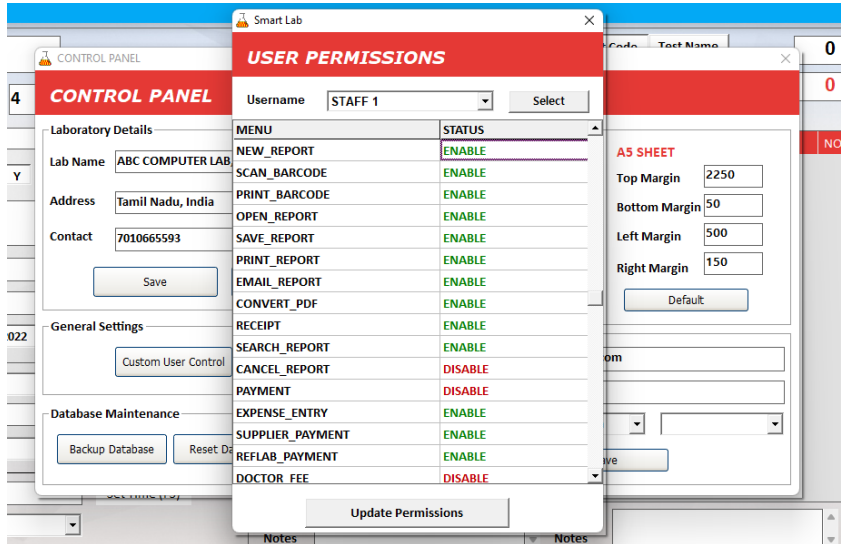
Smart Lab has one main screen to perform operations. Patient details, Doctor details, Referral Lab details, Investigation and Result details, Payment details all are will be covered in single screen for easier operations.

TEST NAME	RESULT	UNIT	NORMAL RANGE
Total Cholesterol		mg/dl	130 - 200
Triglycerides		mg/dl	Lessthan 160
HDL (DIRECT)		mg/dl	Morethan 40
LDL		mg/dl	Lessthan 120
VLDL		mg/dl	Lessthan 30
CHO/HDL			< 4.0
LDL/HDL			< 2.5

1.3) User wise access Settings

Menu -> Master -> Control Panel -> Custom User Control

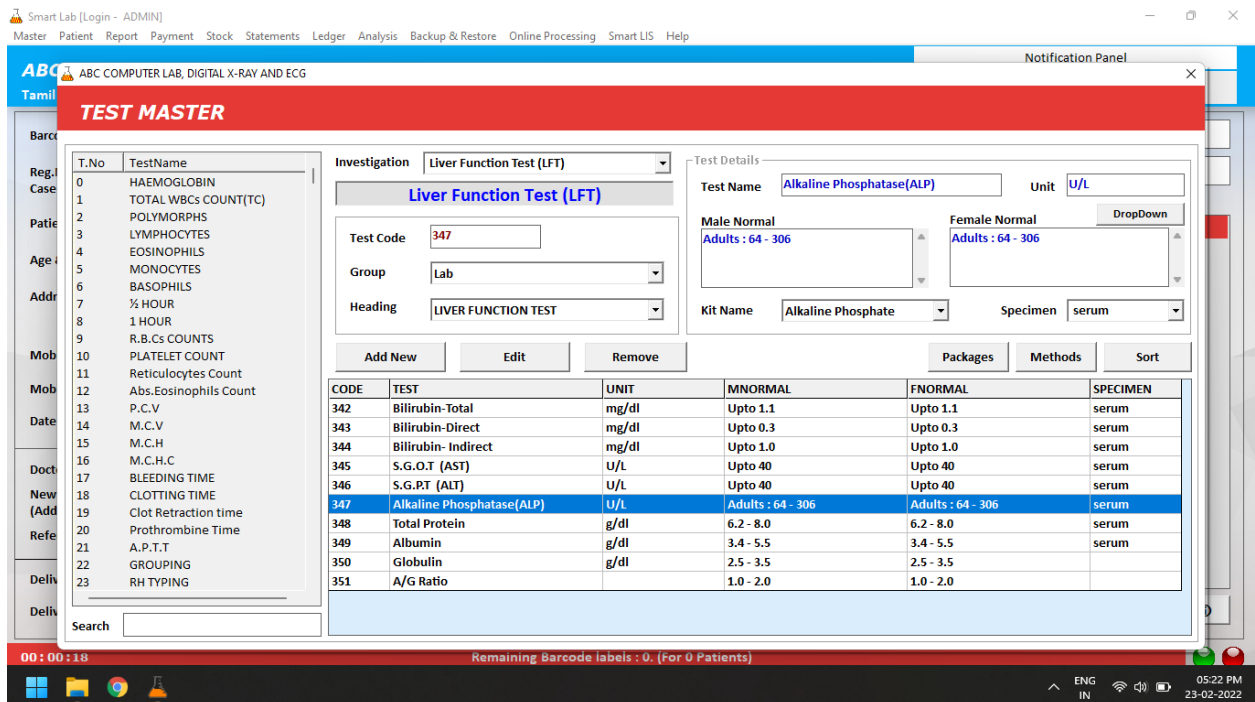
You can configure the user settings to provide access permission of each process.



1.4) In-Built investigations and tests along with details

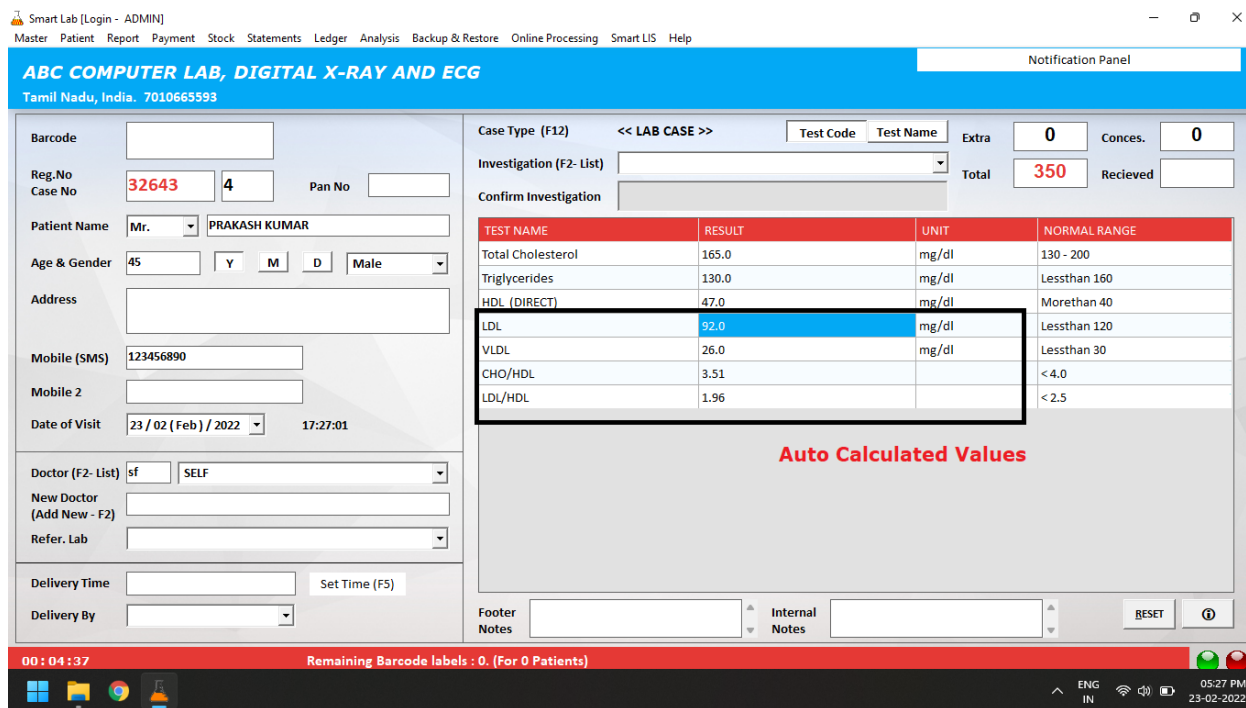
Menu -> Master -> Test Master

There are more than 700 tests that are preinstalled in Smart Lab. Also you can edit and add new tests/investigations as you want.



1.5) Automatic Calculation for Lipid Profile, LFT, Hba1c, Bilirubin

Automated the results that are arrived by calculations of depended parameters for the investigations such as Lipid Profile, Liver Function Tests, HBA1c, and Bilirubin. This will helps you to avoid manual calculation errors and speed up the reporting process.



1.6) Test result selection with simple dropdown

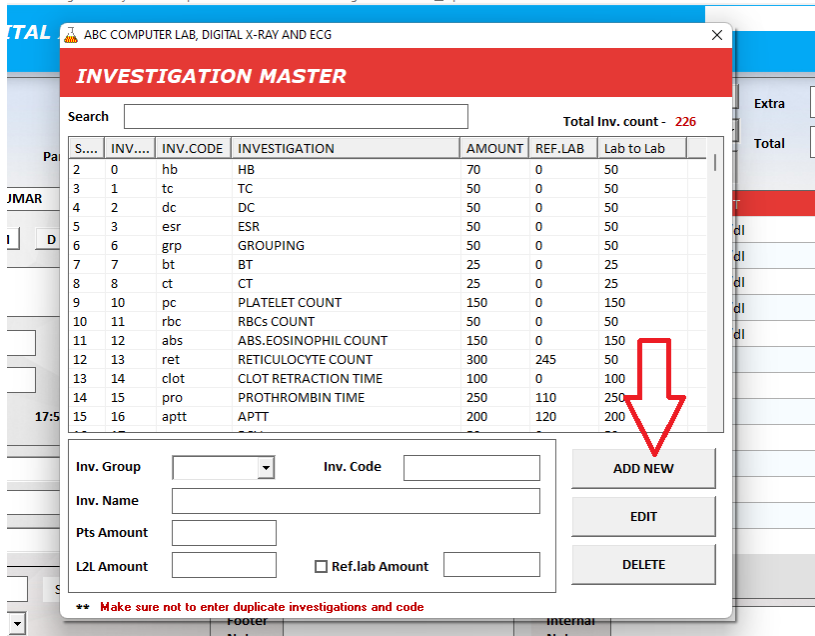
For the tests that are having fixed result values, you can simply select the result by the dropdown feature as shown below. You can also customize the drop down value as you want.

TEST NAME	RESULT	UNIT	NORMAL RANGE
Total Cholesterol	165.0	mg/dl	130 - 200
Triglycerides	130.0	mg/dl	Lessthan 160
HDL (DIRECT)	47.0	mg/dl	Morethan 40
LDL	92.0	mg/dl	Lessthan 120
VLDL	26.0	mg/dl	Lessthan 30
CHO/HDL	3.51		<4.0
LDL/HDL	1.96		<2.5
GROUPING			
RH TYPING			
S.TYPHI "O" ANTIGEN	Negative (1: 20 dil)		
S.TYPHI "H" ANTIGEN	<input type="text" value="Negative (1: 20 dil)"/>		
S.PARA TYPHI "AH" ANTIGEN	Negative (1: 20 dil)		
S.PARA TYPHI "BH" ANTIGEN	Positive (1: 40 dil)		
	Positive (1: 80 dil)		
	Positive (1:160 dil)		
	Positive (1:320 dil)		

1.7) Investigation/Test addition (Unlimited), edit, remove

Menu -> Master -> Investigation Master/Test Master

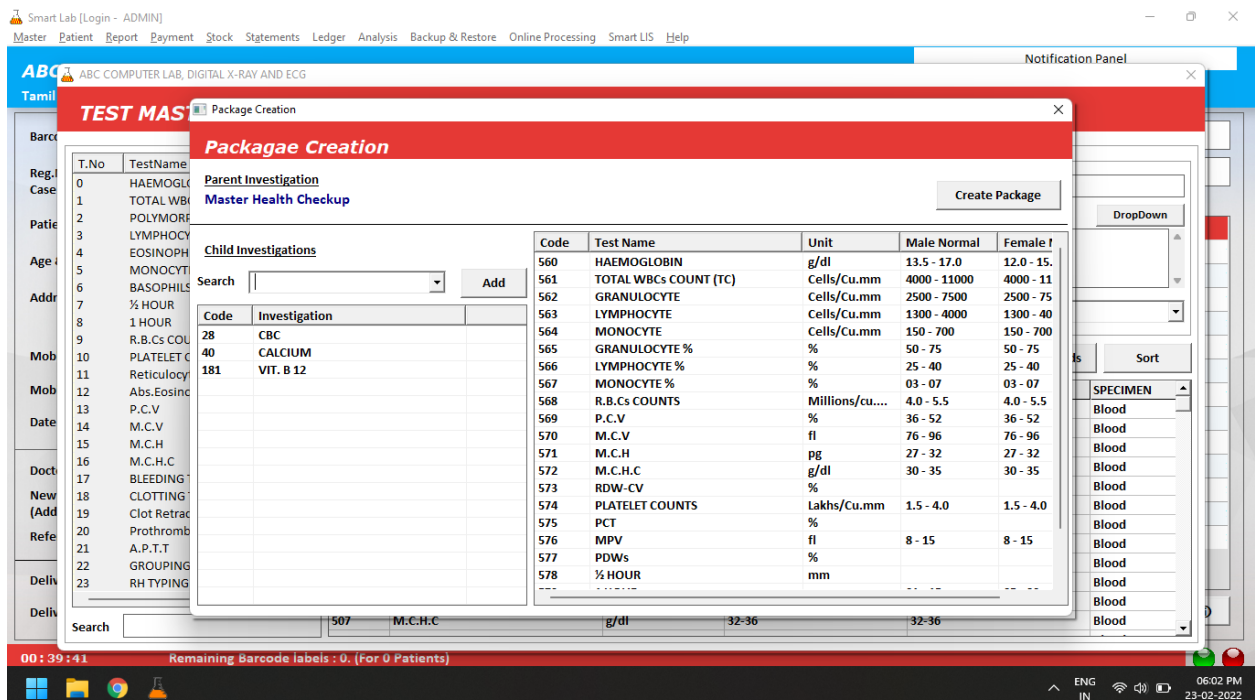
You can add, edit and remove the investigation as well as tests in simple steps.



1.8) Investigation package creation

Menu -> Master -> Test Master -> Package

You can create your own packages with custom investigations. e.g. Master Health Check up



1.9) Barcode generation and label printing

Barcode will be automatically generated at the time of new registration entry. You can print the barcode labels and stick it on test tubes for the identification. This barcode can be printed in the test report and by scanning it you can view the patient details in the application.

The screenshot shows a patient registration form with a barcode at the top left. A red arrow points to the barcode. The form includes fields for Reg.No (32643), Case No (4), Patient Name (Mr. PRAKASH KUMAR), Age & Gender (45 Y M D Male), Address (NULL), Mobile (SMS) (123456890), Mobile 2 (000), Date of Visit (23/02/2022 18:07:01), Doctor (F2-List) (sf SELF), New Doctor (Add New - F2), and Refer. Lab. A 'Report Saved!' message with a blue checkmark and 'Press Enter to Continue' is overlaid on the form. The 'TEST NAME' table is also visible:

TEST NAME	RESULT
Total Cholesterol	165.0
Triglycerides	130.0
RH TYPING	Positive
S.TYPHI "O" ANTIGEN	Negative (1: 20 dil)
S.TYPHI "H" ANTIGEN	Negative (1: 20 dil)
S.PARA TYPHI "AH" ANTIGEN	Negative (1: 20 dil)
S.PARA TYPHI "BH" ANTIGEN	Negative (1: 20 dil)

Ref ID No : 32643
 Pt's Name : Mr.PRAKASH KUMAR
 Age & Sex : 45 Y/ MALE
 Ref. Dr : SELF

Date of Visit : 23/02/2022
 Date of Report : 23/02/2022

SPECIMEN	INVESTIGATION	RESULT	UNIT	NORMAL VALUE
HAEMATOLOGY				
BLOOD	GROUPING	" B "		
BLOOD	RH TYPING	POSITIVE		
BIOCHEMISTRY				
LIPID PROFILE				
SERUM	TOTAL CHOLESTEROL	165.0	mg/dl	130 - 200
SERUM	TRIGLYCERIDES	130.0	mg/dl	Less than 160
SERUM	HDL (DIRECT)	47.0	mg/dl	More than 40
	LDL	92.0	mg/dl	Less than 120
	VLDL	26.0	mg/dl	Less than 30
	CHO/HDL	3.51		< 4.0
	LDL/HDL	1.96		< 2.5

1.10) Cash Receipt printing

Cash Receipt can be generated by

Menu -> Report -> Cash Receipt.

1.11) Investigation wise detailed bill printing

Investigation wise detailed bill can be generated by

Menu -> Report -> Investigation wise Receipt.

The screenshot shows a 'CASH RECEIPT' form with the following details:

Reg. No : 32,643 **CASH RECEIPT** DATE : 23/02/2022

Received the amount of Rupees FOUR HUNDRED FIFTY Only
 from Mr.PRAKASH KUMAR Age 45 Y/Male
 towards the following specimen investigation.

BLOOD

Rs. 450.00 For,

The screenshot shows a 'CASH BILL' form with the following details:

CASH BILL

Reg. No 32643 Date 23/02/2022

Patient Mr.PRAKASH KUMAR 45 Y / Male

Ref. by Dr. SELF

S.No	Investigation	Amount
1	GROUPING	50.00
2	LIPID PROFILE	350.00
3	WIDAL (SLIDE METHOD)	50.00

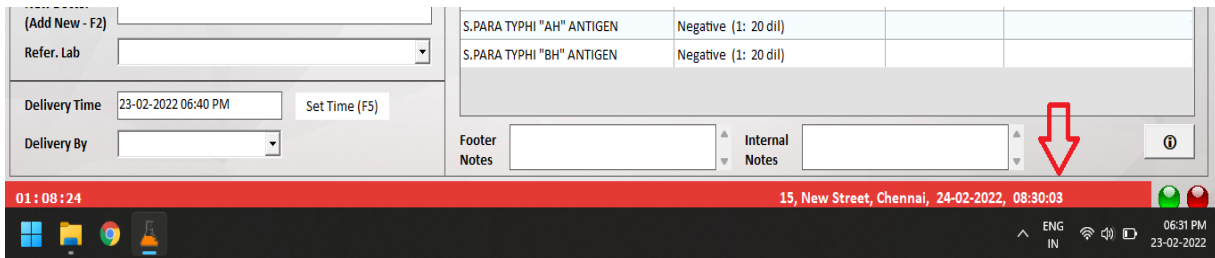
Other Charges : 0.00
 Total Amount : 450.00
 Paid Amount : 0.00

Rupees FOUR HUNDRED FIFTY ONLY

Both print designs can be modified as per the requirement.

1.12) House Visit Appointments

House visit appointments will be scrolled in bottom of the main screen as a reminder and also you can view as report.



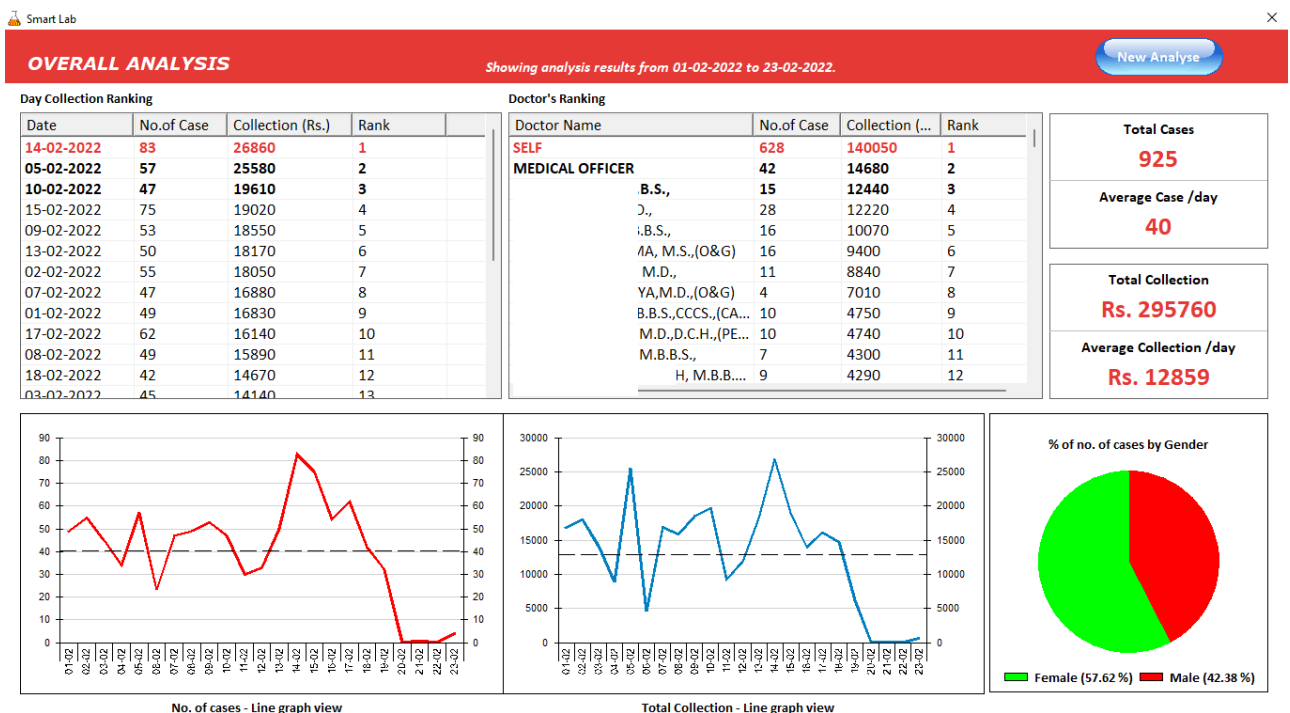
1.13) Lab/House visit case entries

You can differentiate the registration by choosing lab case or house visit sample collection. This will help you to filter the reports that are needed to be delivered at home

1.14) Overall Statistics Analysis

This will shows you some statistical details about the attended cases, income details, patients and doctor wise collection.

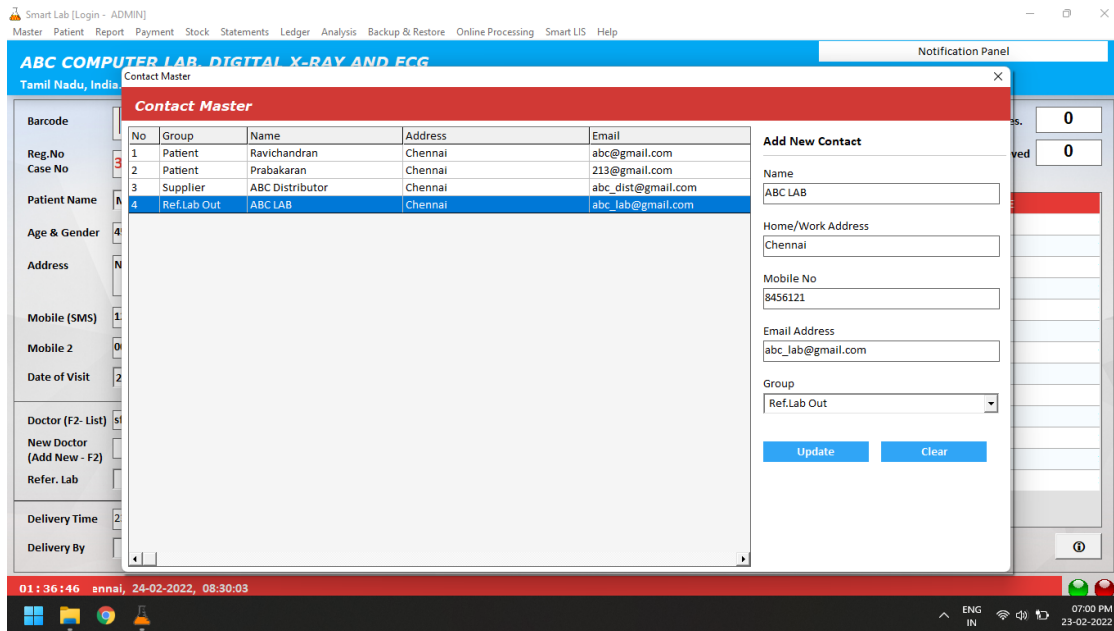
- a) Day wise collection Ranking
- b) Doctor wise collection Ranking
- c) Line Graph view of No of Cases and Collection Amount
- d) Cases and Collection amount average



1.15) Contact phone Book

Menu -> Master -> Contact Master

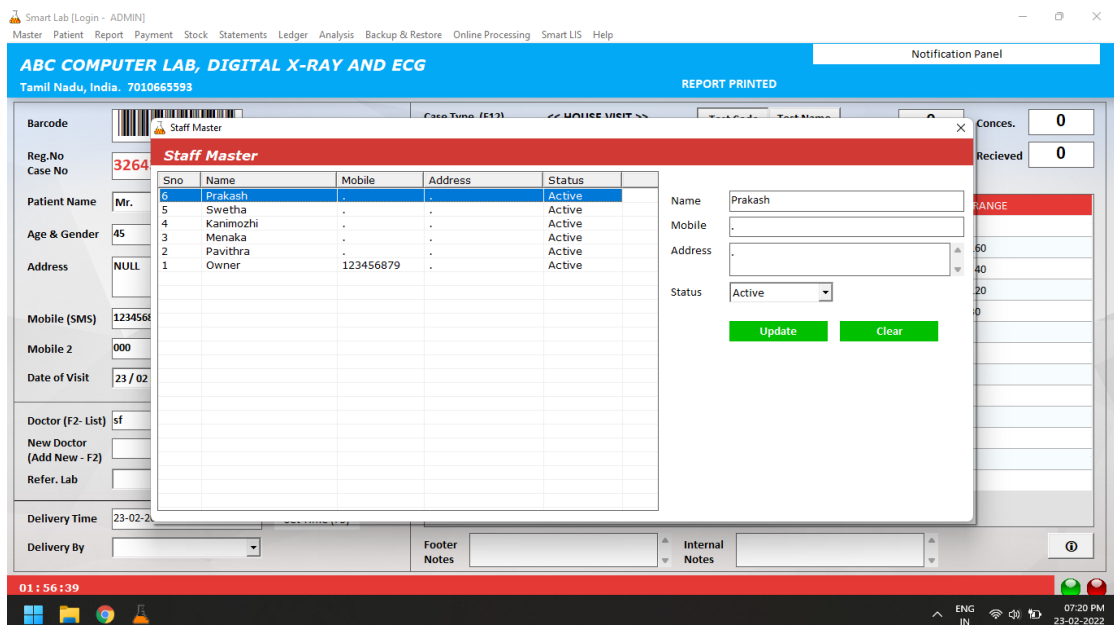
You can add the contact details of various groups of people such as Patients, Supplier, Ref.Lab, Doctors and so on. At the time of report sending via email, you can choose the contact from phone book.



1.16) Staff details entry

Menu -> Master -> Staff Master

You can add the working staff details in Staff Master. Staff name need to be selected in some of the report/payment processing areas. e.g. To know who collected the due amount from the patient.




1.17) Yearly Accounts Closing, Data Reset & Switch Database

Menu -> Master -> Control Panel -> Reset Database

You can reset your database whenever you want. This leads to reset the registration number to start from 1. Usually this process will be done on calendar year end or financial year end.

DATABASE RESET



This function will reset all the data such as patient registrations, payment details, referral lab transactions, statements etc. You should have backup of the data upto now before continuing. If the backup is not done then the data can't be recovered after resetting which means you may permanently loss your data.

Note : After the reset process the registration number will be start from the beginning. Master Data(Doctors,Investigations,Referral lab) will not be erased. Make sure the PC will run without power failure.

Once the database reset process done, the previous year database will be available to view the old data. This can be done by switching to old database by using Switch Data tool as shown in below.

SWITCH DATABASE

List of available database

Current Data	Database Info
23-02-2022-192815	Total Patient Registrations : 32643
23-02-2022-193616	Entry From : 01-01-2020
	Entry To : 23-02-2022
	No. of Doctors : 148
	No. of Clients : 1
	No. of Distributors : 6
	No. of Tests conducted* : 119124

1.18) Referring Lab Reports Tracking (Out lab specimen and report)

Menu -> Patient -> Referring Lab Reports

If any test that need to be performed in out lab (referring lab), then you can track the status of sample/report as shown below.

Each Sample can be send to any referring lab (This can be added in Referring Lab Master)

The screenshot displays the 'REFERRING LAB REPORTS' interface. It features two main tables: 'Pending Samples' and 'Report Status'. The 'Pending Samples' table lists various patient records with their respective dates and investigations. A modal dialog box titled 'Send Sample to Referring Lab' is open, allowing the user to select a referring lab and specify details for sending a sample. The dialog includes a dropdown for 'Ref.Lab Name' (THYRO CARE PVT LTD), input fields for 'Ref.Lab Amount' and 'Extra Amt' (both set to 0), radio buttons for 'Payment Mode' (Cash and Credit, with Credit selected), and a dropdown for 'Sender Name' (Prakash). A 'Send Sample' button is located at the bottom of the dialog.

Then you can change the status of the report once it is received/printed/despached.

The screenshot shows the 'REFERRING LAB REPORTS' interface with the 'Report Status' table. The table has columns for 'RegNo', 'Date', 'Patient Name', 'Investigation', and 'Ref.Lab'. Several reports are listed, with the report for patient REJIYA BANU (RegNo 32526) highlighted in blue. The status bar at the top of the table shows 'Pending', 'Received', and 'Despached' options. The 'Report Status' table also includes a 'Filter' button and a date range selector (17-02-2022 to 17-02-2022). At the bottom, there are 'Report Status' and 'Update By' dropdowns, and an 'Update' button.

You can view the current status of report as shown in below. This will show the timeline of each status update and the user who updated it.

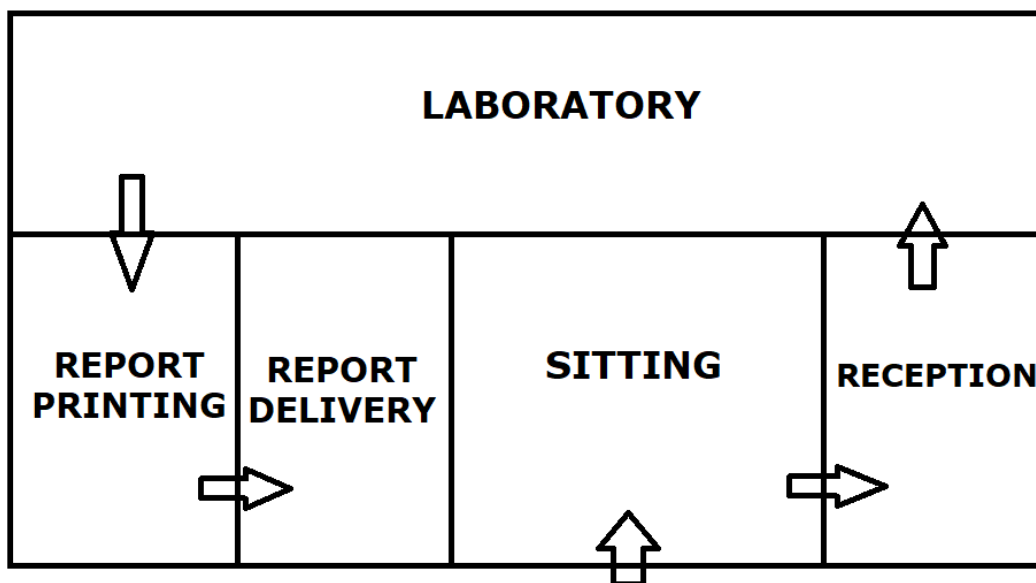
Ref Lab Report Tracking ×

32157 - Mr.K.SOORYA (21Y)
Investigation : IgE TOTAL

- Registration
On : 10-02-2022 09:10 AM
- Sample Send to THYRO CARE PVT LTD
On : 10-02-2022 06:08 PM
By : Kanimozhi
- Report Received
On : 15-02-2022 05:19 PM
By : Kanimozhi
- Report Despatched
On : 15-02-2022 05:20 PM
By : Kanimozhi

1.19) Multi-Processing Setup (Sample Collection, Lab, Reporting, Despatching)

You can use Smart Lab in various stages as shown in below.



- 1) Registration Entry in Reception
- 2) LDS in Laboratory
- 3) Report Printing
- 4) Payment Collection and Report delivery

1.20) Smart Notifications

You will receive a notification on several things such as report delivery, LIS report receiving, payment due alert, house visit appointment alert and so on.

The screenshot shows a software interface for a laboratory. At the top, there is a navigation menu with options: Master, Patient, Report, Payment, Stock, Statements, Ledger, Analysis, Backup & Restore, Online Processing, Smart LIS, and Help. The main header area is blue and contains the text "ABC COMPUTER LAB, DIGITAL X-RAY AND ECG" and "Tamil Nadu, India. 7010665593". A notification panel is visible in the top right corner, titled "Notification Panel", with a red button labeled "Report Delivery" and the text "03:00 - RAMACHANDRAN (32648)".

Below the header, there are several input fields and buttons:

- Barcode: [Empty field]
- Reg.No: 32649
- Case No: 6
- Pan No: [Empty field]
- Patient Name: Mr. [Empty field]
- Age & Gender: [Empty field] Y M D [Empty field]

On the right side, there are controls for "Case Type (F12)" set to "<< LAB CASE >>", "Investigation (F2- List)" with a dropdown menu, and "Confirm Investigation" with a text input field. There are also buttons for "Test Code" and "Test Name".

Summary statistics are shown in a grid:

Extra	0	Conces.	0
Total	0	Recieved	[Empty field]

At the bottom, there is a table header with columns: TEST NAME, RESULT, UNIT, and NORMAL RANGE.

2. Patient

2.1) Patient Database

Here you can view all the details about the patient. You can also filter patient by the case type and date value.

Menu -> Patient -> Patient Database (Shortcut: Ctrl + F1)

PATIENT DATABASE Refresh

Reg.No: 32649
 Pt's Name: JOHN
 Age: 48 Y / Male
 Doctor: SELF
 Date & Time: 24-02-2022 04:46:52 PM
 Mobile: 000
 Address: NULL

Concession: 0.00
 Extra Amount: 0.00
 Total Amount: 640.00
 Paid Amount: 0.00
 Despatch Status: Pending
 Print Status: Not Printed
 Ref. LAB: ---
 Case Type: << LAB CASE >>
 Report Delivery: 24-02-22 05:50 PM

Open Report
 Print A4
 Print A5
 Send Report Email
 Send Report Whatsapp
 Attach RefLab Report
 View RefLab Report
 Open Due Status

Date: 24/02/2022 Case Type: ALL Show

Search: _____

SNo	Reg. No	Patient Name	Test Status
1	32644	Mr. PATIENT 1	Pending
2	32645	Mr. PRAKASH	Pending
3	32646	Mrs. RAMYA	Pending
4	32647	Mr. JAHAN	Completed
5	32648	Mr. RAMACHANDRAN	Pending
6	32649	Mr. JOHN	Completed

Test Name	Result	Normal Value
SUGAR (F)	145.0	70 - 110
SUGAR (PP 2 hrs)	188.0	<130
Urea	48.0	10 - 50
Creatinine	1.2	0.6 - 1.5
Total Cholesterol	210.0	130 - 200
Triglycerides	145.0	Lessthan 160
HDL (DIRECT)	48.0	Morethan 40
LDL	133.0	Lessthan 120
VLDL	29.0	Lessthan 30
CHO/HDL	4.38	< 4.0
LDL/HDL	2.77	< 2.5
S.TYPHI "O" ANTIGEN	Negative (1: 20 dil)	
S.TYPHI "H" ANTIGEN	Negative (1: 20 dil)	
S.PARA TYPHI "AH" ANTIGEN	Negative (1: 20 dil)	
S.PARA TYPHI "BH" ANTIGEN	Negative (1: 20 dil)	

2.2) Regular Patient

You can add your regular patient's data in Client Master. Also you can provide PAN cards to them. When their visit, you can select patient by PAN No or Mobile No. This will help you to track the past history of patient.

CLIENT ENTRY

PAN No.: 2
 Name: Mr. PATIENT NAME
 Age: 42
 Address: SOME ADDRESS
 Mobile No: 213256488
 Phone: _____

Smart Lab
 New Client Added Successfully!
 OK

NAME	PAN	Age	Mobile
SUMATHI	1	35	1231321213

Cancel Edit Save History

2.3) Payment Due Details

Menu -> Patient -> Due Details (Shortcut: Ctrl + G)

Here you can view the payment details of patient at any period of date. You able to add extra amount or concession amount with proper reason. You can despatch report in this screen to know whether the report is delivered to the patient or not.

ABC COMPUTER LAB, DIGITAL X-RAY AND ECG

Payment Due Details

From: 24/02/2022 To: 24/02/2022 Search Show All Total Due Amount: 44970
 Show due records only Due Amount (Under list): 1080

RegNo	Name	Date	Doctor	Total	Paid	Due	Status
32649	JOHN	24-02-2022	SELF	640	0	640	Pending
32648	RAMACHANDRAN	24-02-2022	SELF	70	0	70	Pending
32647	JAHAN	24-02-2022	SELF	50	0	50	Pending
32646	RAMYA	24-02-2022	SELF	350	150	200	Pending
32645	PRAKASH	24-02-2022	SELF	350	350	0	Pending
32644	PATIENT 1	24-02-2022	SELF	120	0	120	Pending

Search: Open Report Despatch Report

Payment Collection
 Received Amount: 50 Collection Date: 24/02/2022 Received By: Payment Collection

Extra / Concession Payment Entry
 Concession Amount: Extra Amount: Reason: Payment Modify

2.4) Patient test report history analysis (Intelligent search engine)

Menu -> Patient -> Patient History (Shortcut: F8)

There are two types in this history analysis.

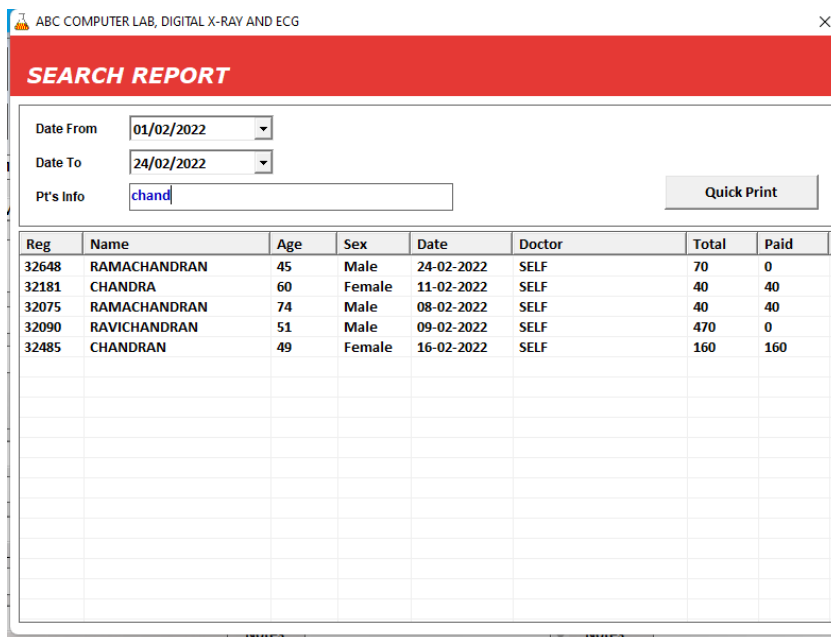
1. If you know the mobile number of the patient then it is very simple to get the past report history of that particular patient.
2. If you don't know the mobile number then, Smart Lab's intelligent search engine will analyse and search with the patient name, age, address and similar details.

Patient History		Mr.NARASIMMAN (21551)			
Date	Detail	Test Name	Mr.NARASIMMAN (20-01-2021)	Mr.NARASIMMAN (30-12-2020)	Mr.NARASIMMAN (13-04-2021)
<input checked="" type="checkbox"/> 30-12-20	13508 - Mr.NARASIMMAN (58Y)	SUGAR (F)	197.0		141.0
<input checked="" type="checkbox"/> 20-01-21	14274 - Mr.NARASIMMAN (58Y)	SUGAR (PP 1½ hrs)	301.0		239.0
<input checked="" type="checkbox"/> 13-04-21	18265 - Mr.NARASIMMAN (59Y)	Urea	18.0		
<input type="checkbox"/> 13-05-21	19499 - Mr.NARASIMMAN (59Y)	Bilirubin-Total	1.0	0.9	
<input type="checkbox"/> 22-06-21	21551 - Mr.NARASIMMAN (59Y)	Bilirubin-Direct	0.7	0.3	
<input type="checkbox"/> 19-10-21	27170 - Mr.NARASIMMAN (59Y)	Bilirubin- Indirect	0.3	0.6	
<input type="checkbox"/> 16-12-21	29811 - Mr.NARASIMMAN (59Y)				
<input type="checkbox"/> 15-02-22	32382 - Mr.NARASIMMAN (59Y)				

2.5) Search Patient based on name, mobile number, address

Menu -> Report -> Search Report (Shortcut: Ctrl + F)

You can search the patient by their name/mobile number/address on a selected date range.



Reg	Name	Age	Sex	Date	Doctor	Total	Paid
32648	RAMACHANDRAN	45	Male	24-02-2022	SELF	70	0
32181	CHANDRA	60	Female	11-02-2022	SELF	40	40
32075	RAMACHANDRAN	74	Male	08-02-2022	SELF	40	40
32090	RAVICHANDRAN	51	Male	09-02-2022	SELF	470	0
32485	CHANDRAN	49	Female	16-02-2022	SELF	160	160

3. Doctor

3.1) Doctor Master

Menu -> Master -> Doctor Master

You can add doctor details in master, so that you can select doctor from the list at the time of registration.

3.2) Quick Add doctor on the spot of registration

You can enter new doctor at the time of registration without adding it in master. Moreover you can add it in master by pressing F2.

3.3) Doctor Commission details

In Doctor Master, the commission percentage should be updated initially. Once it is configured, the commission amount will be calculated automatically for each registration referred by the respective doctor.

ABC COMPUTER LAB, DIGITAL X-RAY AND ECG

DOCTOR MASTER

Doctor's Database

No	Code	Name	Address	ContactNo	Speciality	Lab	Xray	Ecg
2	moa	MEDICAL OFFICER	.	0000000000	General	0	0	0
1	sf	SELF	.	0000000000	General	0	0	0

Search Doctor

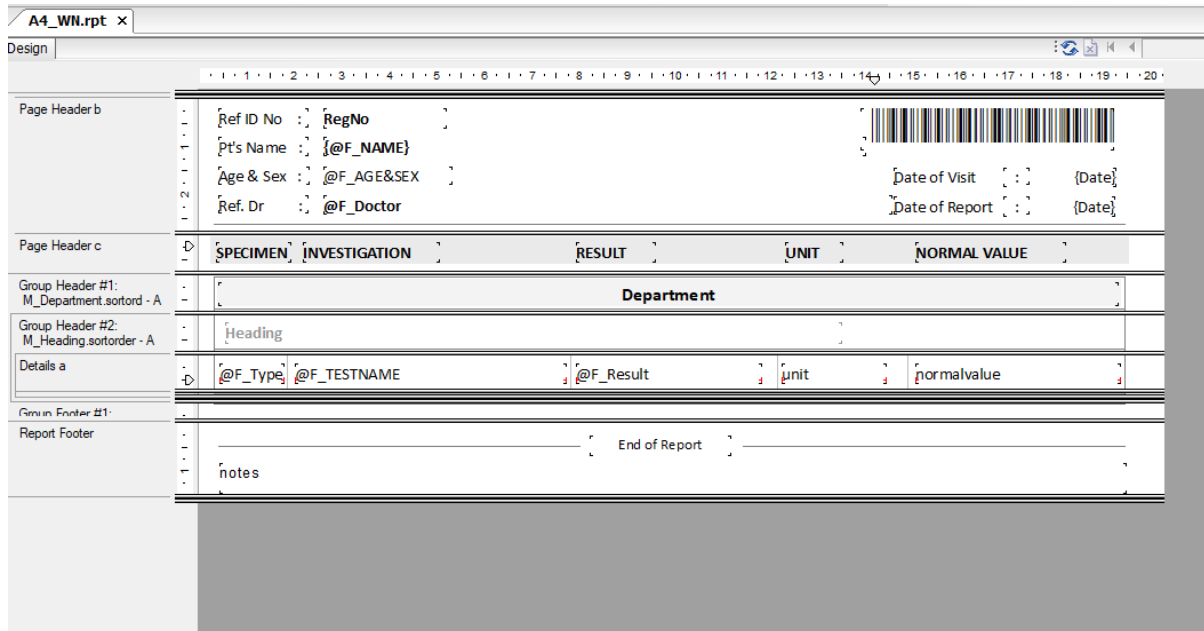
Doctor Details

Doctor ID	<input type="text"/>	Doctor Code	<input type="text"/>	<input type="checkbox"/> Doctor Commission
Dr. Name	<input type="text"/>			Lab = <input type="text"/> % Xray = <input type="text"/> Rs Ecg = <input type="text"/> Rs
Address	<input type="text"/>			
Contact No	<input type="text"/>			
Speciality	<input type="text"/>			

4. Reporting

4.1) Fully Customisable Report Format

Smart Lab Reporting is powered by Crystal Reports. All the reports/statements can be customized as you want.

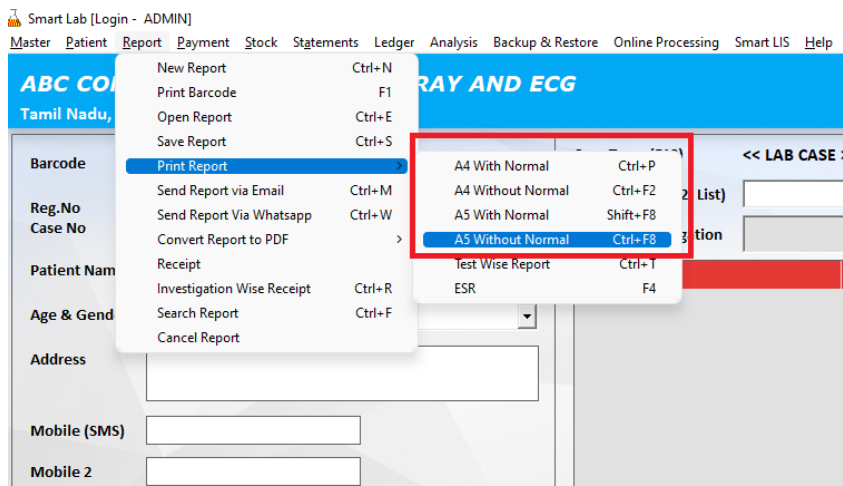


4.2) Report Header/Footer can be included

If you are not using pre-printed report pad then you can set your report pad header and footer in print design.

4.3) Dual report paper A4/A5 (or any paper size)

You able to print report on dual size. If there are fewer tests in a row means you can go with A5 sheet.



4.4) Test wise Reporting

Menu -> Report -> Print Report -> Test Wise Report (Shortcut: Ctrl + T)

You can print report by test wise. If you want to split the report into multiples you can use test wise reporting feature.

ABC COMPUTER LAB, DIGITAL X-RAY AND ECG

TEST WISE REPORT

Reg.No: 32644

Pts.Name: PATIENT 1

Investigation	
<input checked="" type="checkbox"/> HAEMOGLOBIN	
<input type="checkbox"/> TOTAL WBCs COUNT(TC)	

Select All

A4 WITH NORMAL A5 WITH NORMAL

PRINT

4.5) Report With Normal Value/ Without Normal Value Formats

Menu -> Report -> Print Report -> (4 Options)

For the tests, those not having normal values (e.g. Blood Grouping) can be reported without normal value column.

Smart Lab [Login - ADMIN]

Master Patient Report Payment Stock Statements Ledger Analysis Backup & Restore Online Processing Smart LIS Help

ABC COMPUTER LAB, DIGITAL X-RAY AND ECG

Barcode: [Field]

Reg.No: [Field]

Case No: [Field]

Patient Name: [Field]

Age & Gender: [Field]

Address: [Field]

Mobile (SMS): [Field]

Mobile 2: [Field]

Report Menu:

- New Report (Ctrl+N)
- Print Barcode (F1)
- Open Report (Ctrl+E)
- Save Report (Ctrl+S)
- Print Report (Selected)
- Send Report via Email (Ctrl+M)
- Send Report Via Whatsapp (Ctrl+W)
- Convert Report to PDF
- Receipt
- Investigation Wise Receipt (Ctrl+R)
- Search Report (Ctrl+F)
- Cancel Report

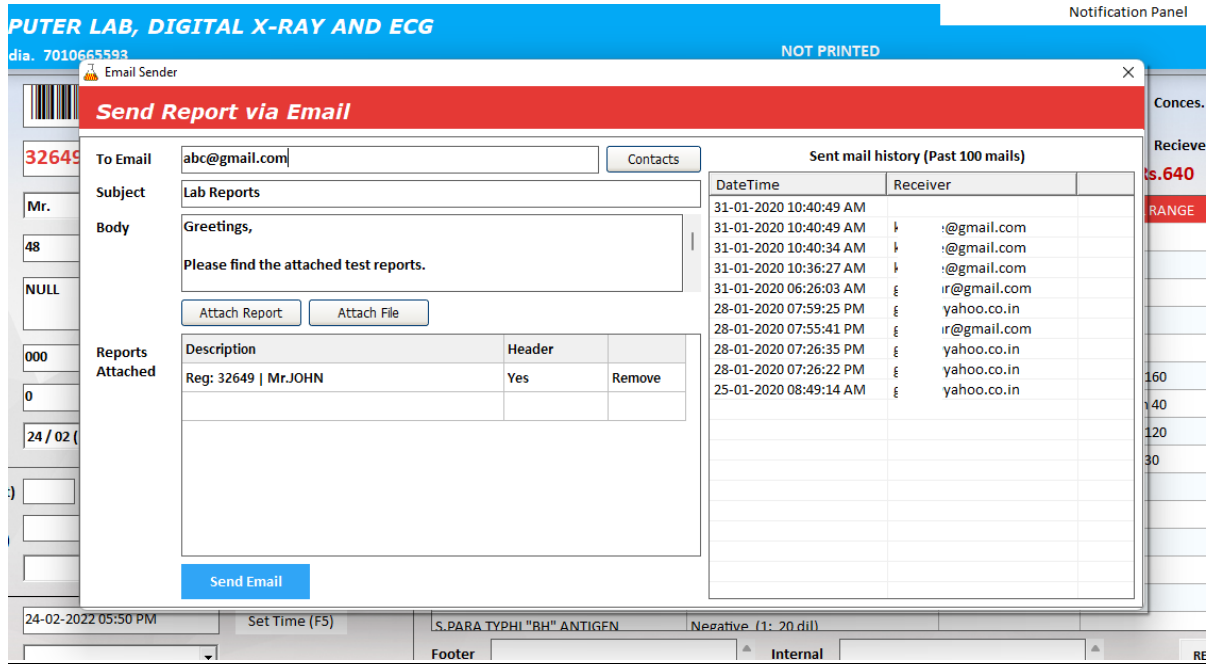
Print Report Sub-menu:

- A4 With Normal (Ctrl+P)
- A4 Without Normal (Ctrl+F2)
- A5 With Normal (Shift+F8)
- A5 Without Normal (Ctrl+F8)**
- Test Wise Report (Ctrl+T)
- ESR (F4)

4.6) Send Report via Email

Menu -> Report -> Send Report via Email (Shortcut: Ctrl + M)

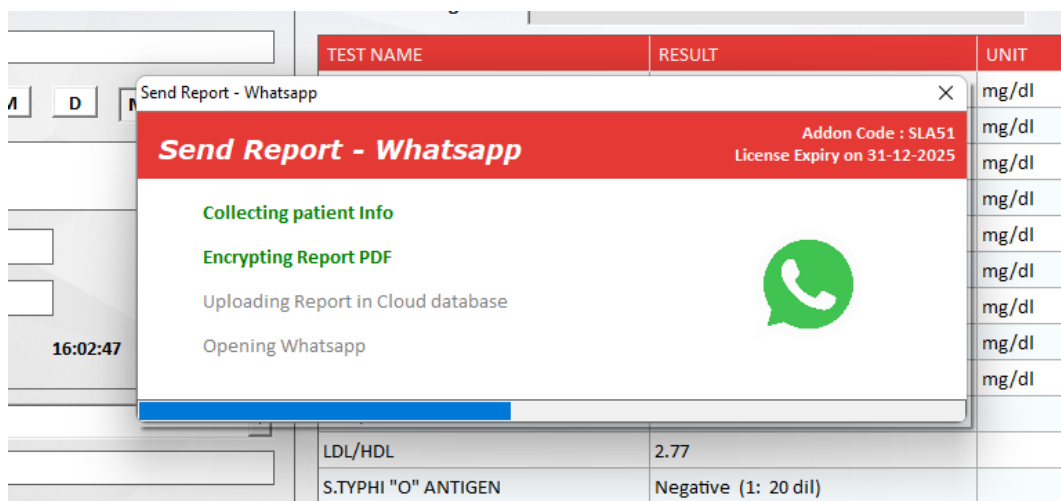
You can send the test reports to patients or referral lab via email. You can also send multiple reports in a single mail. Attaching external file is possible.



4.7) Send Report via Whatsapp

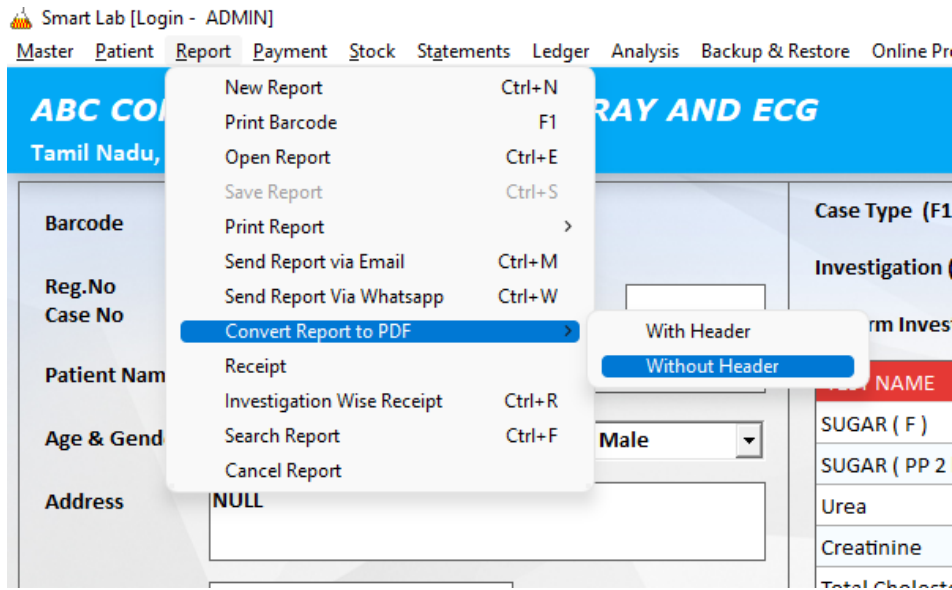
Menu -> Report -> Send Report via Whatsapp (Shortcut: Ctrl + W)

Report will be uploaded in secure cloud database in encrypted format. This cloud link can be shared in Whatsapp or any other social app. When user clicks the link, it will open as PDF file.



4.8) Convert Report to PDF

Menu -> Report -> Convert Report to PDF -> With/Without Header



4.9) Investigation/Test Methods in report print

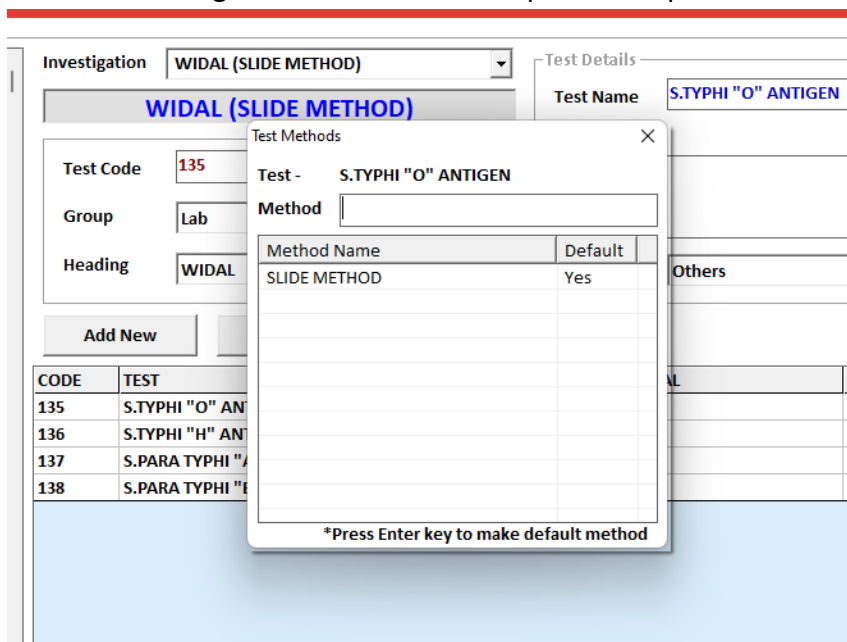
1) To create test methods

Menu -> Master -> Test Method Master

2) To map the method against tests

Menu -> Master -> Test Master -> Methods

You can create and map the testing methodology for each test in master. Those details can be mentioned against the tests in the report. Multiple methods can be configured for single test.



4.10) Auto sorting tests based on its department order

At the time of new patient entry, you can select the tests in any order. But in the report print, tests will be automatically ordered based on the department.

4.11) Result High/Low flags in Report

In test report, tests can be pointed out those are abnormal in values which may below or above reference range.

4.12) Footer notes

You can enter footer notes that will print at the end of the report. (e.g. *Rechecked)

VLDL	29.0	mg/dl	Lessthan 30
CHO/HDL	4.38		< 4.0
LDL/HDL	2.77		< 2.5
S.TYPHI "O" ANTIGEN	Negative (1: 20 dil)		
S.TYPHI "H" ANTIGEN	Negative (1: 20 dil)		
S.PARA TYPHI "AH" ANTIGEN	Negative (1: 20 dil)		
S.PARA TYPHI "BH" ANTIGEN	Negative (1: 20 dil)		

Footer Notes: Internal Notes:

Remaining Barcode labels : 0. (For 0 Patients)

4.13) Separate report designs for CBC, Thyroid, RAF, HBA1C and more

It is possible to print separate report for any kind of investigations. You can also mention the analyser name and details in report.

4.14) Culture Reporting with Sensitive/Resistant including Growth Values

Smart Lab has special reporting feature for any kind of culture investigation.

SENSITIVE				RESISTANT	
Antibiotics	Growth	<	Speed of growth	>	Antibiotics
Cefoperazone	20	>	Quantity of growth	<	Cefepime
Ceftriaxone	15		Isolated Organism		Cefixime
Cephoxaxime	8		Colonies Count		Linezolid
Ciprofloxacin	13		-		
Gatifoaxacin		Growth (mm)	-		
Gentamycin			Cefaclor		
Levofloxacin			Cefazolin		
			Cefazolin		
			Cefdimir		
			Moxifloxacin		
			Netilmicin		
			Norfloxacin		
			Ofloxacin		
			Pefloxacin		
			Piperacillin Tazobactam		
			Amikacin		
			Ampicillin Sulbactam		
			Azithromycin		

9. Add-ons

9.1) Laboratory Display System (LDS)

Laboratory Display System or simply known as LDS is a single screen program that shows all the patient details in a single screen with their current status. This screen can be used in the laboratory (test processing area) that used to make sure all the tests are performed for a registration and it is ready on time.

Here are some of the uses/advantages of LDS

- To know the status of the report such as Pending, Completed, Despatched. Each status will have different colour codes to identify it easier.
- To know what all the investigations are that need to be performed in referring lab.
- Upcoming report delivery details will be listed on a side, so that we can done it before the dead line.
- You will receive various notifications on the right bottom of the screen. e.g. New patient entry.
- On clicking on the info box, you able to see the entire information about the patient including payments.
- This screen will be automatically refreshed so that each report status will be on screen at real time.
- You can also feed the result and print the report directly from this screen.
- You can view the patient history before entering the results.

Laboratory Display System - Powered by Smart Lab

Auto Refresh in 6

Delivery Time	Patient Details
10:00 AM	32645 - Mr. PRAKASH
10:30 AM	32644 - Mr. PATIENT 1
11:00 AM	32646 - Mrs. RAMYA

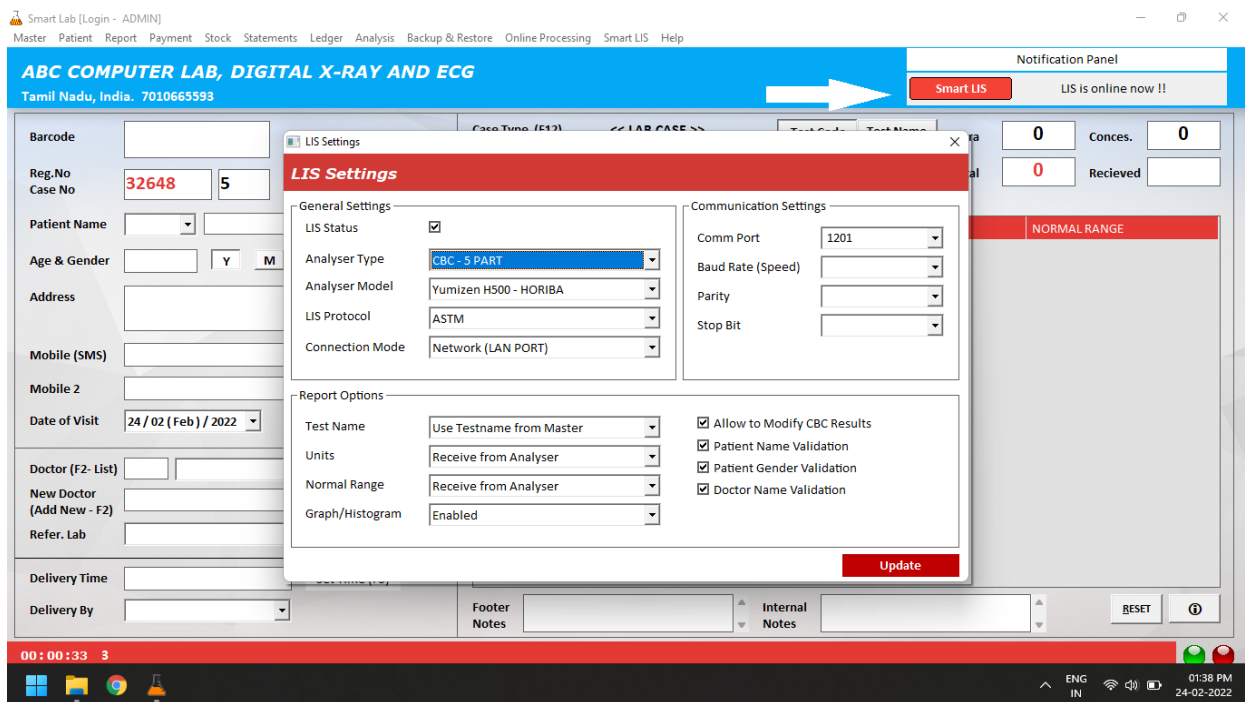
10:09 AM
24-02-2022

9.2) CBC Analyser Integration (LIS) (3 Part, 5 Part, 6 Part)

You can connect your CBC machine with Smart Lab application to transfer the patient results. So that you able to edit the patient details and customize the report format as you want from the application. This will help to avoid the human errors while manually typing those CBC parameters.

Here are some of the uses/advantages

- Transfer test results on single click to the respective registration.
- Can modify test results/normal values in case of need.
- Get instant notification on receiving the report from analyser.
- Can share the report via mail/Whatsapp whatever the need.
- Fully customizable CBC print design.
- Can include any extra parameters such as ESR, Grouping etc.
- Can use the unit, normal value from the master settings, instead of receiving from analyser.
- You can view the data logs of past received reports from analyser
- In case of failure in receiving the data, you can manually receive again from Data log screen.
- Supported : Network (LAN), Serial RS232 communications
- Supported : ASTM protocol (LIS2)



Smart LIS - Data Log

Smart LIS - Data Log

Date: 19-02-2022

LogID	Date Time	RegNo	Patient Info	Status
3	19-02-2022 02:28:29 PM	32567	SALAVUDEEN /M	Received
2	19-02-2022 02:23:30 PM	32622	SHAJAHAN NISHA /F	Received
1	19-02-2022 02:22:29 PM	32622	SHAJAHAN NISHA /F	Pending

Showing Data Log

9.3) Mobile App for Owners/Managers

eManager is a mobile application made for the laboratory owners/managers. Using mobile application, you can know the real time data of your lab.

Here is the list of data you can view from mobile app

- a) Date wise patient details
- b) Patient test and result details
- c) View Patient Report
- d) Share report to any social app (E.g. Whatsapp, Telegram etc.)
- e) Date wise income details
- f) Date wise due details
- g) Date wise expense details
- h) Doctor IC
- i) Attractive day wise dashboard that shows hour wise case details.

