AUTOMATION OF MOBILE MEDICAL UNIT

(Mukhya Mantri Slum Swasthya Yojana)

OUT PATIENT DEPARTMENT (OPD) MODULE USER MANUAL



VERSION 1.0

TABLE OF CONTENT

1.	Intro	oduct	tion	. 3
2.	Brie	f Ove	erview	. 3
2	2.1	Feat	tures	. 3
2	2.2	Targ	get Users	. 3
3.	Deta	ailed	requirement	. 3
3	3.1	OPD) waiting list	. 3
	3.1.	1	Description	. 3
	3.1.	2	Prerequisites	. 4
	3.1.	3	Screenshot	. 4
	3.1.	4	Field Description	. 4
	3.1.	5	Flow	. 6
	3.1.	6	Messages	11
3	3.2	OPD	O recall	12
	3.2.	1	Description	12
	3.2.	2	Prerequisites	12
	3.2.	3	Screenshot	13
	3.2.	4	Field Description	13
	3.2.	5	Flow	15
	3.2.	6	Messages	18

1. Introduction

The overall objective of the OPD (Out-patient department) module is to follow a comprehensive approach to manage the patient management system that eases of capturing pertinent information. This Module will manage and cater the OPD consultation of the patient. It supports the process of minor procedure that both patients and doctor follow. It allows the hospital users to capture the symptoms, vital details, diagnosis, treatment, investigations, and referral details advised of the patient. The patient can also go to the doctor at any time during the same day of appointment for consultation through recall process.

This module also helps in maintaining the history of patient's medical history by generating the case sheets, prescription slips and referral letter by doctor. These documents can be viewed by doctor at any time during consultation.

2. Brief Overview

2.1 Features

This module manages the following features:

- OPD waiting list
- OPD recall

2.2 Target Users

The following users can access the OPD module:

- 1. Doctor
- 2. Pharmacist

3. Detailed requirement

3.1 OPD waiting list

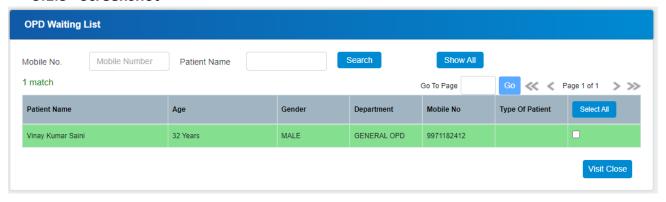
3.1.1 Description

This functionality allows the user to capture the patient health details and doctor consultation details like diagnosis, treatment, medication, and investigation and referral advice against the individual patient. It also allows the doctor to suggest patient about minor procedure as well as MLC based on the patient's condition. The previous history of the patient including case sheets, health records, etc. are available for the doctor who can be used as reference. Also, the doctor can close the OPD record without adding any consultation details.

3.1.2 Prerequisites

1. The user is logged-in into the application and is having access to "OPD waiting list" page

3.1.3 Screenshot



3.1.4 Field Description

S. No	Field Name	Description	
Search	Search		
1	Patient name	It refers to the name of patient whose record needs to be searched	
2	Mobile number	It refers to the mobile number of the patient against whom record needs to be searched	
Table			
3	Patient name	It refers to the name of patient against whom OPD details needs to be entered	
4	Age	It refers to the age of patient at the time of appointment	
5	Gender	It refers to the gender of patient	
6	Department	It refers to the department against which appointment is given to the patient	
7	Mobile number	It refers to the mobile number of the patient	
8	Type of patient	It defines whether patient is labour or general citizen	
Main page			
9	Name	It refers to the name of patient. It is displayed in read only mode.	
10	Gender	It refers to the gender of patient. It is displayed in read only mode.	
11	Age	It refers to the age of patient. It is displayed in read only mode.	
12	Mobile number	It refers to the mobile number of the patient. It is displayed in read only mode.	
13	Type of patient	It defines whether patient is labour or general citizen. It is displayed in read only mode.	
14	Patient signs and symptoms	It refers to the problems/disease of the patient	
15	Past medical history	It refers to the previous details given by the patient about the disease to the doctor during OPD.	

16	Height (cm)	It refers to the height of patient.	
17	Weight (kg)	It refers to the weight of the patient	
18	Temperature	It refers to the body temperature of the patient	
19	BP (mmHg)	It refers to the Blood pressure of the patient	
20	Pulse (/min)	It refers to the heart pulse rate of the patient	
21	SpO2 (%)	It refers to the heart pulse rate of the patient	
22	BMI (Kg/m2)	It refers to the body mass index of the patient based on	
22	Bivii (Rg/IIIZ)	weight and height.	
23	RR (/min)	It refers to the number of breathes taken by patient in a minute	
24	Mark as MLC case	It defines whether the patient case is considered as MLC	
		case or not. In case it is marked as MLC case, then the	
		following details are entered: Date, Location, name of	
		institution, treated as and police station	
25	Diagnosis	It refers to diagnosis identified in patient during	
		consultation	
26	Mark as communicable	It defines whether the diagnosis is a communicable disease	
	disease	or not	
27	Mark as infectious disease	It defines whether the diagnosis is an infectious disease or	
		not	
28	Investigation Template	It allows the user to select the template rather than adding	
		each investigation individually.	
29	Investigation	It refers to the investigation advised by doctor	
30	Other investigation	It refers to any other investigation then mentioned which	
		needs to be examine against patient	
· I		It allows the user to select the template rather than adding	
		each nomenclature (medicine) individually.	
32	Drug name/ drug code	It refers to the name and code of drug item prescribed by	
		doctor	
33	Disp unit.	It is auto populated against the nomenclature	
34	Dosage	It refers to the dosage of medicine for the patient.	
35	Frequency	It refers to medicine frequency, needs to be selected by	
		user	
36	Days	It refers to the number of days the medicines to be given.	
37	Total	It is auto calculated by the system based on dosage,	
		frequency and days.	
38	Instruction	It is the instruction given by the doctor to the patient.	
39	Available stock	It refers to the current stock available in the system against	
		drug item	
40	Minor procedure name	It refers to the name of minor procedure advised by doctor	
41	Minor procedure remarks	It refers to the remarks added by against the advised minor	
42	Defermed	procedure	
42	Referral	It defines whether the patient is advised for referral or not	
43	Hospital	It refers to the name of hospital to whom the patient is	
4.6	Donostro sust	advised to visit as part of referral	
44	Department	It refers to the name of department to whom the patient is	
45	Defermal vestes	advised to visit as part of referral	
45	Referral notes	It refers to the referral notes given by doctor while	
16	Othors	referring to hospital	
46	Others	It refers to other details entered by doctor against referral	

47	Follow up	It defines whether follow up is required or not	
48	Number of days	It refers to the number of days after which the patient	
		needs to come for follow up session	
49	Next date	It refers to the next appointment date based on current	
		date and entered number of days	
50	Doctor's remarks	It refers to the doctor remarks given by doctor after	
		complete consultation	

OPD WAITING LIST form contains following **BUTTONS**:

SEARCH: This button allows the user to search the detail of Patient based on different search parameters

SHOW ALL: This button allows the user to display the list of all records

CLOSE: This button allows the doctor to close the OPD record without adding any consultation details.

PREVIOUS VISIT: This button allows the doctor to view the previous visits of the patient

PREVIOUS VITALS: This button allows the doctor to view the previous vitals of the patient captured in the system

PREVIOUS LAB INVESIGATION: This button allows the doctor to view the previous lab investigation and results of the patient

PREVIOUS ECG INVESTIGATION: This button allows the doctor to view the previous ECG results of the patient

ADD: This button allows the user to add a record. **DELETE:** This button allows the user to delete a row

CREAT TEMPLATE: This button allows the user to create a template

UPDATE TEMPLATE: This button allows the user to update the existing template

SUBMIT: This button allows the user to submit the form **RESET:** This button allows the user to Clear entered data **SAVE:** This button allows the user to save the entered data **CLOSE:** This button allows the user to close the popup

CASE SHEET: This button allows the user to download/print the case sheet

PRESCRIPTION SLIP: This button allows the user to download/print the prescription slip

REFERRAL LETTER: This button allows the user to download/print the referral letter

BACK TO LIST: This button allows the user to redirect to Waiting list of OPD consultation from current page

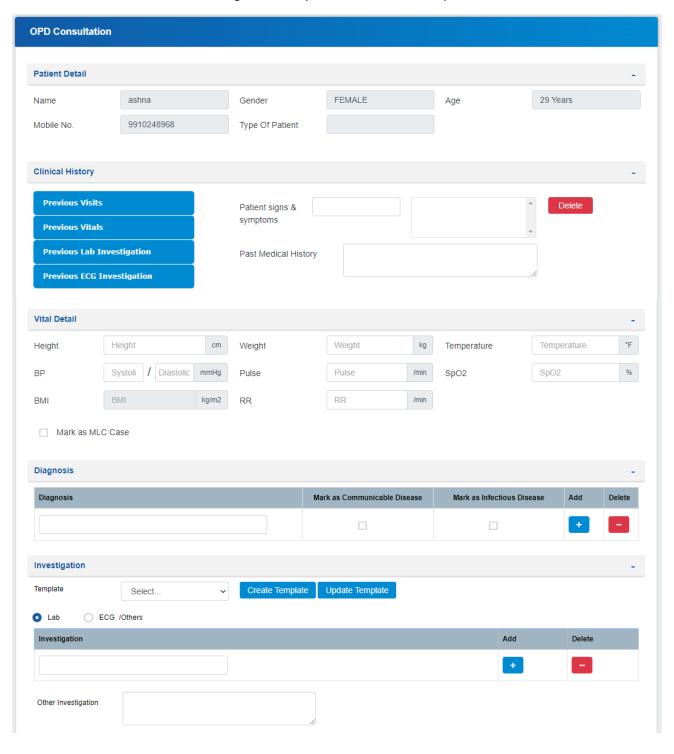
3.1.5 Flow

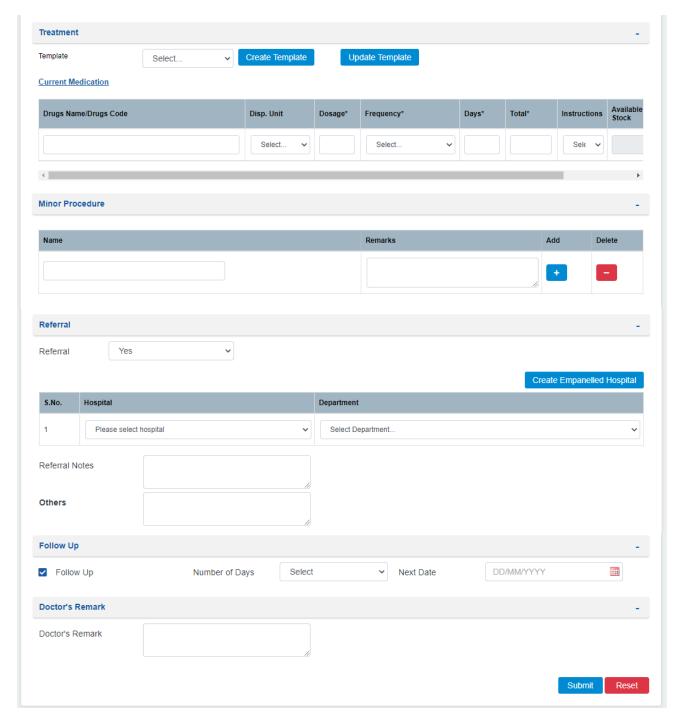
Steps of process flow:

Case 1: Adding consultation details

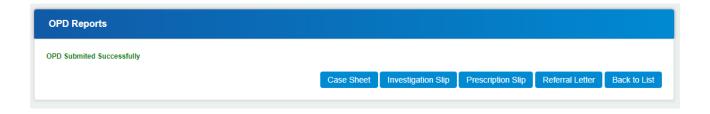
- 1. Click on "OPD →OPD Waiting List" link.
- 2. Enter any of the search parameter (mobile number, patient name)
- 3. After clicking on search button record will filter down based on search parameter

4. Click on the record, User will get the complete details about the patient.



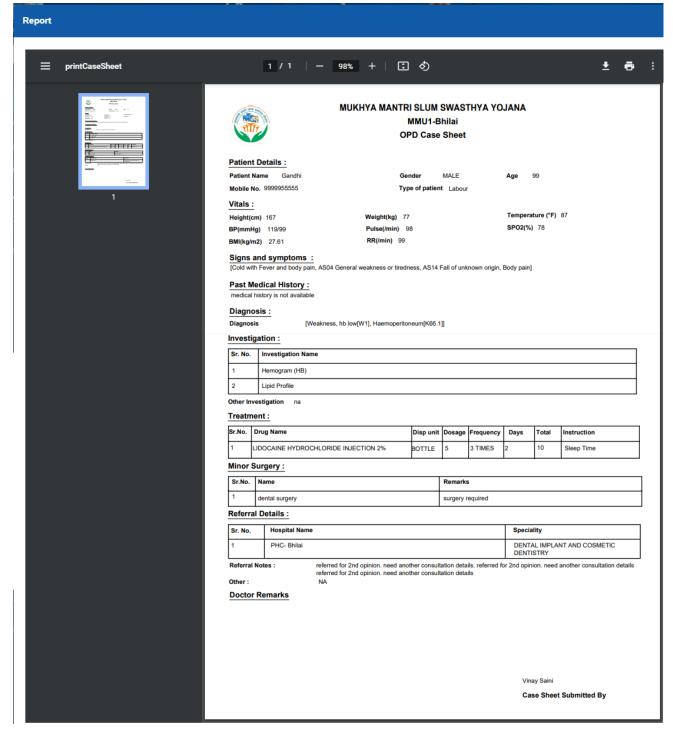


- 5. User needs to enter consultation details.
- 6. Click on reset button to clear the entered data
- 7. Click on Submit button to submit the form
- 8. After clicking on submit button, now it will redirect to OPD Reports page as shown below:



a) Case Sheet:

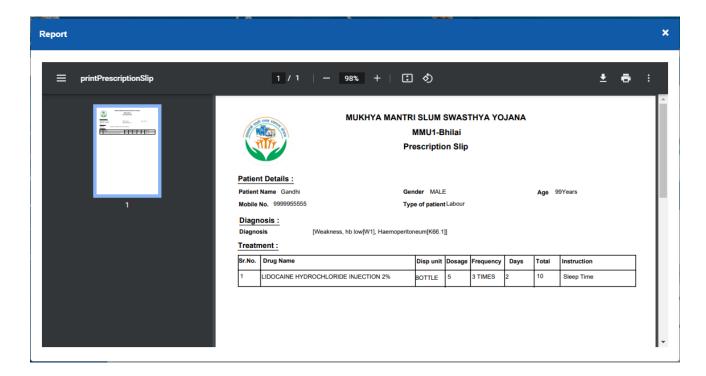
- I. Click on case sheet button
- II. After clicking on case sheet button, a popup will open which allows the user to download/print the case sheet as shown below:



- III. Click on save button to download the case sheet in PDF format and save on user's system
- IV. Click on print button to print the case sheet

b) Prescription Slip:

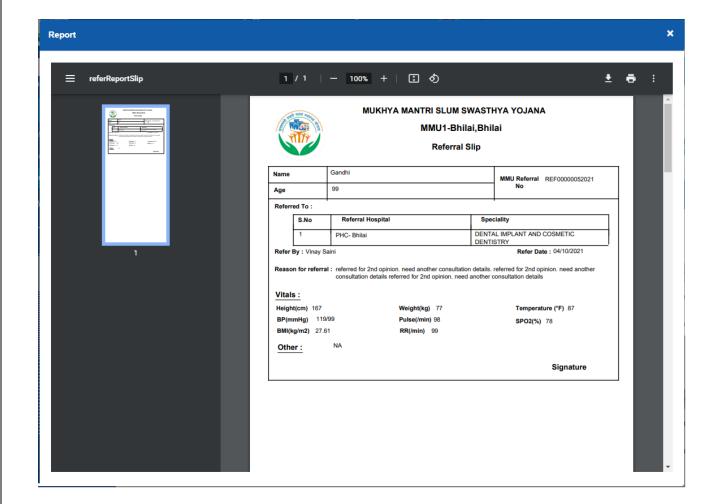
- I. Click on prescription slip button
- II. After clicking on prescription slip button, a popup will open which allows the user to download/print the prescription slip as shown below:



- III. Click on save button to download the prescription slip in PDF format and save on user's system
- IV. Click on print button to print the prescription slip

c) Referral Letter:

- I. Click on Referral Letter button
- II. After clicking on Referral Letter button, a popup will open which allows the user to download/print the Referral Letter as shown below:



- III. Click on save button to download the Referral Letter in PDF format and save on user's system
- IV. Click on print button to print the Referral Letter
- 9. Click on back to list button to be redirected to OPD consultation waiting list from OPD reports

Case 2: Close the record i.e. removing the record from list

- 1. Click on "OPD →OPD Waiting List" link.
- 2. Click on Close button to remove the record from waiting list

OR

- 1. Click on "OPD →OPD Waiting List" link.
- 2. Enter any of the search parameter (mobile number, patient name)
- 3. After clicking on search button record will filter down based on search parameter
- 4. Click on Close button to remove the record from waiting list

3.1.6 Messages

S. No.	Message	Reason	Expected Action from the user

1.	At least one option must be entered	This message indicates that nothing has been entered for search	User need to enter at least one parameter for search.
2.	Please enter patient signs and symptoms	The message indicate that patient signs and symptoms is not entered	User needs to enter patient signs and symptoms
3.	Please enter at least one Diagnosis	This message indicates that the diagnosis is not entered.	User need to enter the diagnosis.
4.	Diagnosis is already added	This message indicates that the same diagnosis is chosen by the user.	User shouldn't add the same diagnosis again.
5.	Please enter a Template Name	This message indicates that the template name is not defined by the user.	User needs to define the name of template
6.	Investigation is already added	This message indicates that the same investigation is entered by the user	User should not enter the same investigation twice
7.	Drug name is already added	This message indicates that the same drug name is entered by the user	User should not enter the same drug name twice
8.	Procedure is already added	This message indicates that the same procedure is entered by the user	User should not enter the same procedure again
9.	Dosage should be greater than 0 under drug name	This message indicates that dosage value is not entered, or 0 values has entered	User must enter the dosage value and it should be greater than 0.
10.	Please select frequency against entered drug name	This message indicates that frequency has not entered against drug name	User must enter the frequency against the drug name
11.	Please Enter No. of Days against entered drug name	This message indicates that number of days has not entered against drug name	User must enter the number of days against drug name

3.2 OPD recall

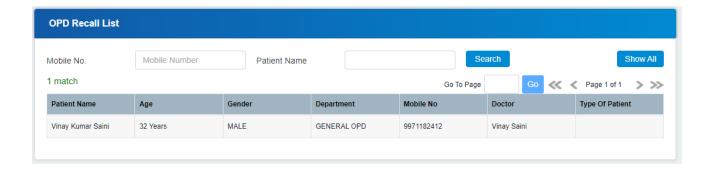
3.2.1 Description

This functionality allows the user to manage the recall data of the patient. The patient can consult the same doctor multiple times against individual appointment/ visit. The data captured during OPD consultation is displayed to doctor in editable mode

3.2.2 Prerequisites

- 1. The user is logged-in into the application and is having access to "OPD Patient recall" page
- 2. The patient is examined by the same doctor on the same day

3.2.3 Screenshot



3.2.4 Field Description

S. No	Field Name	Description		
Search	Search			
1	Patient name	It refers to the name of patient whose record needs to be searched		
2	Mobile number	It refers to the mobile number of the patient against whom record needs to be searched		
Table				
3	Patient name	It refers to the name of patient against whom OPD details needs to be entered		
4	Age	It refers to the age of patient at the time of appointment		
5	Gender	It refers to the gender of patient		
6	Department	It refers to the department against which appointment is given to the patient		
7	Mobile number	It refers to the mobile number of the patient		
8	Type of patient	It defines whether patient is labour or general citizen		
Main pa	age			
9	Name	It refers to the name of patient. It is displayed in read only mode.		
10	Gender	It refers to the gender of patient. It is displayed in read only mode.		
11	Age	It refers to the age of patient. It is displayed in read only mode.		
12	Mobile number	It refers to the mobile number of the patient. It is displayed in read only mode.		
13	Type of patient	It defines whether patient is labour or general citizen. It is displayed in read only mode.		
14	Patient signs and symptoms	It refers to the problems/disease of the patient		
15	Past medical history	It refers to the previous details given by the patient about the disease to the doctor during OPD.		
16	Height (cm)	It refers to the height of patient.		
17	Weight (kg)	It refers to the weight of the patient		
18	Temperature	It refers to the body temperature of the patient		
19	BP (mmHg)	It refers to the Blood pressure of the patient		

20	Pulse (/min)	It refers to the heart pulse rate of the patient	
21	SpO2 (%)	It refers to amount of oxygen in the blood of patient	
22	BMI (Kg/m2)	It refers to the body mass index of the patient based on	
	J.V. (18)/	weight and height.	
23	RR (/min)	It refers to the number of breathes taken by patient in a	
	,,	minute	
24	Mark as MLC case	It defines whether the patient case is considered as MLC	
		case or not. In case it is marked as MLC case, then the	
		following details are entered: Date, Location, name of	
		institution, treated as and police station	
25	Diagnosis	It refers to diagnosis identified in patient during	
		consultation	
26	Mark as communicable	It defines whether the diagnosis is a communicable disease	
	disease	or not	
27	Mark as infectious disease	It defines whether the diagnosis is an infectious disease or	
		not	
28	Investigation Template	It allows the user to select the template rather than adding	
		each investigation individually.	
29	Investigation	It refers to the investigation advised by doctor	
30	Other investigation	It refers to any other investigation then mentioned which	
		needs to be examine against patient	
31	Treatment Template	It allows the user to select the template rather than adding	
		each nomenclature (medicine) individually.	
32	Drug name/ drug code	It refers to the name and code of drug item prescribed by	
		doctor	
33	Disp unit.	It is auto populated against the nomenclature	
34	Dosage	It refers to the dosage of medicine for the patient.	
35	Frequency	It refers to medicine frequency, needs to be selected by	
		user	
36	Days	It refers to the number of days the medicines to be given.	
37	Total	It is auto calculated by the system based on dosage,	
	<u> </u>	frequency and days.	
38	Instruction	It is the instruction given by the doctor to the patient.	
39	Available stock	It refers to the current stock available in the system against	
40	DA:	drug item	
40	Minor procedure name	It refers to the name of minor procedure advised by doctor	
41	Minor procedure remarks	It refers to the remarks added by against the advised minor	
42	Referral	procedure It defines whether the nation is advised for referral or not	
42		It defines whether the patient is advised for referral or not It refers to the name of hospital to whom the patient is	
43	Hospital	advised to visit as part of referral	
44	Department	It refers to the name of department to whom the patient is	
	Department	advised to visit as part of referral	
45	Referral notes	It refers to the referral notes given by doctor while	
.5		referring to hospital	
46	Others	It refers to other details entered by doctor against referral	
47	Follow up	It defines whether follow up is required or not	
48	Number of days	It refers to the number of days after which the patient	
.5		needs to come for follow up session	
49	Next date	It refers to the next appointment date based on current	
.,	1. Text date	is refers to the next appointment date based on current	

date and entered number of days		date and entered number of days	
50 Doctor's remarks		It refers to the doctor remarks given by doctor after	
		complete consultation	

OPD Patient Recall form contains following BUTTONS:

SEARCH: This button allows the user to search the detail of Patient based on different search parameters

SHOW ALL: This button allows the user to display the list of all records

CLOSE: This button allows the doctor to close the OPD record without adding any consultation details.

PREVIOUS VISIT: This button allows the doctor to view the previous visits of the patient

PREVIOUS VITALS: This button allows the doctor to view the previous vitals of the patient captured in the system

PREVIOUS LAB INVESIGATION: This button allows the doctor to view the previous lab investigation and results of the patient

PREVIOUS ECG INVESTIGATION: This button allows the doctor to view the previous ECG results of the patient

ADD: This button allows the user to add a record.

DELETE: This button allows the user to delete a row

CREAT TEMPLATE: This button allows the user to create a template

UPDATE TEMPLATE: This button allows the user to update the existing template

 $\begin{tabular}{ll} \textbf{SUBMIT:} This button allows the user to submit the form \\ \end{tabular}$

RESET: This button allows the user to Clear entered data

SAVE: This button allows the user to save the entered data

CLOSE: This button allows the user to close the popup

CASE SHEET: This button allows the user to download/print the case sheet

PRESCRIPTION SLIP: This button allows the user to download/print the prescription slip

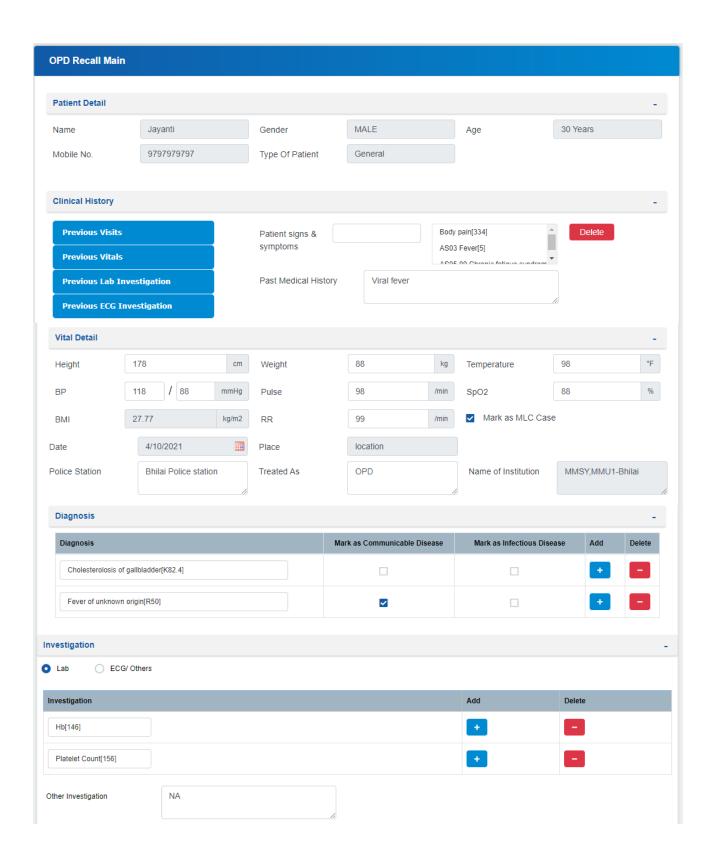
REFERRAL LETTER: This button allows the user to download/print the referral letter

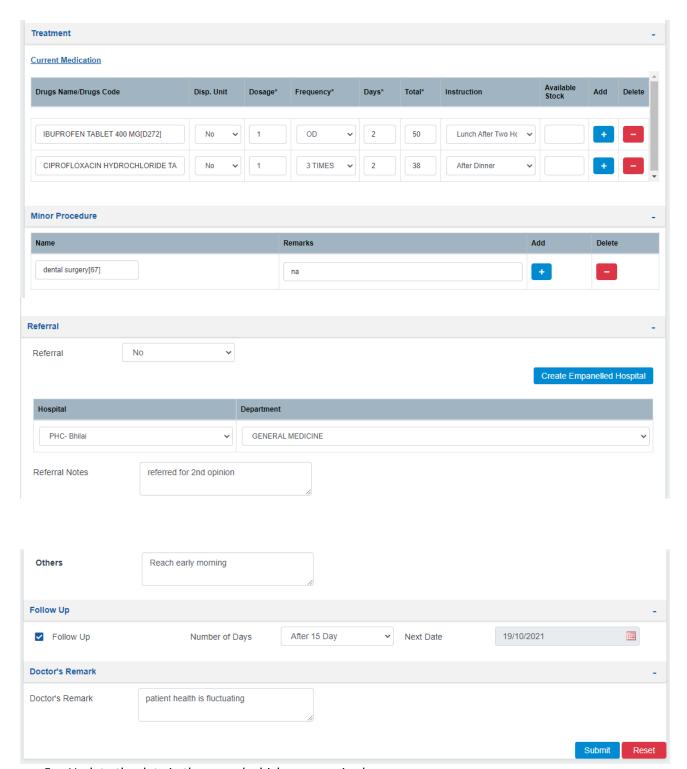
BACK TO LIST: This button allows the user to redirect to Waiting list of OPD consultation from current page

3.2.5 Flow

Steps of process flow:

- 1. Click on OPD →OPD-PATIENT RECALL.
- 2. Enter any of the search parameter (mobile number, patient name)
- 3. After clicking on search button record will filter down based on search parameter
- 4. Click on the record against which updation is required.





- 5. Update the data in the record whichever required
- 6. Click on reset button to clear the entered data
- 7. Click on Submit button to submit the form
- 8. After clicking on submit button, now it will redirect to OPD Reports page as shown below:



a) Case Sheet:

- I. Click on case sheet button
- II. After clicking on case sheet button, a popup will open which allows the user to download/print the case sheet (refer screenshot in OPD waiting list)
- III. Click on save button to download the case sheet in PDF format and save on user's system
- IV. Click on print button to print the case sheet

b) Prescription Slip:

- I. Click on prescription slip button
- II. After clicking on prescription slip button, a popup will open which allows the user to download/print the prescription slip (refer screenshot in OPD waiting list)
- III. Click on save button to download the prescription slip in PDF format and save on user's system
- IV. Click on print button to print the prescription slip

c) Referral Letter:

- I. Click on Referral Letter button
- II. After clicking on Referral Letter button, a popup will open which allows the user to download/print the Referral Letter (refer screenshot in OPD waiting list)
- III. Click on save button to download the Referral Letter in PDF format and save on user's system
- IV. Click on print button to print the Referral Letter
- 9. Click on back to list button to be redirected to OPD Recall list from OPD reports

3.2.6 Messages

S. No.	Message	Reason	Expected Action from the user
1.	At least one option must be entered	This message indicates that nothing has been entered for search	User need to enter at least one parameter for search.
2.	Please enter patient signs and symptoms	The message indicate that patient signs and symptoms is not entered	User needs to enter patient signs and symptoms
3.	Please enter at least one Diagnosis	This message indicates that the diagnosis is not entered.	User need to enter the diagnosis.
4.	Diagnosis is already added	This message indicates that the same diagnosis is chosen by the user.	User shouldn't add the same diagnosis again.
5.	Please enter a Template Name	This message indicates that the template name is not defined by the user.	User needs to define the name of template
6.	Investigation is already added	This message indicates that the same investigation is entered by the user	User should not enter the same investigation twice

7.	Drug name is already added	This message indicates that the same drug name is entered by the user	User should not enter the same drug name twice
8.	Procedure is already added	This message indicates that the same procedure is entered by the user	User should not enter the same procedure again
9.	Dosage should be greater than 0 under drug name	This message indicates that dosage value is not entered, or 0 values has entered	User must enter the dosage value and it should be greater than 0.
10.	Please select frequency against entered drug name	This message indicates that frequency has not entered against drug name	User must enter the frequency against the drug name
11.	Please Enter No. of Days against entered drug name	This message indicates that number of days has not entered against drug name	User must enter the number of days against drug name