

Salient features

- The OPD module consists of 2 main components – the patient queue and the patient dashboard
- As patients are registered at the registration counter, they are seen in the queue for each of the particular OPD's for which they have been registered
- The patient dashboard is the main interface for the doctor to do the entry; it is also a record of the clinical details of the patient
- Through the patient dashboard, the clinical summary/medical history of the patient can be seen by all the doctors across the hospital
- The doctors would also be able to view the results of all the investigations that have been conducted by the patient, as well as the in-patient record of the patient
- The OPD module; specifically the patient dashboard forms the heart of the system that maintains the electronic medical record for each patient.

The screenshot displays the 'Dashboard' interface for a patient. At the top, a navigation bar includes links for Home, Find/Create Patient, Dictionary, Report, OPD, IPD, JAS, Billing, Radiology, Laboratory, Blood Bank, Cohort Builder, and Administration. The dashboard header shows the patient's ID (SHDDU1112158555-9), Name (Shravani), Age (~23 years), Gender (F), Location (MEDICINE OPD ROOM NO: 25), Patient category, Age category (Adult), and Referral (Revisit). Below this, there are tabs for OPD entry, Clinical summary, Investigation report, and IPD record. The main content area is titled 'Opd Form' and contains several sections: 'Provisional Diagnosis' with a text input field and 'Conclude visit'/'Back' buttons; a list of medical conditions (e.g., ABDOMINAL PAIN, ACID PEPTIC DISEASE) with navigation arrows; 'Add note' with a text input field; 'Management plan' with a text input field; another list of procedures (e.g., ASCITIC TAP, BIOPSY) with navigation arrows; 'Internal referral' and 'External referral' dropdown menus; and 'OPD Visit Outcome' with radio buttons for Follow up, Cured, Died, Reviewed, and Admit. At the bottom, there are 'Conclude visit' and 'Back' buttons.

Patient dashboard: The dashboard is an entry review screen, in which medical information regarding patient can be entered and reviewed by user. Through the dashboard, the user would be able to access the following functionalities:

OPD Entry – This is the entry screen, where the user would make the entry for each patient. The OPD entry screen has been designed keeping in mind the long patient queues and minimal time per patient for each doctor, and hence caters to minimal data entry, having just 2 mandatory data entry fields – provisional diagnosis and concluding a visit.

Clinical summary – This is a review screen, where the user would be able to view all the entries that have been made for each patient, in each of the previous encounters that the patient has had with the hospital.

Investigation report – This is a review screen, where the user would be able to view the results of all the previous investigations that have been conducted by the patient.

IPD record – This is a review screen, where the user would be able to view the admission and discharge details of the patient.

On selecting a particular patient, by default, the **OPD entry screen** will be displayed. The user would have to enter a provisional diagnosis, and conclude the visit for each patient. The OPD entry screen is as shown in the screen-shot below:

The user would first have to select a 'provisional diagnosis'. This is a mandatory field. A list of diagnosis has already been provided in the system. The user would have to select a diagnosis from the given list. The user could either type the diagnosis in the provisional diagnosis field or search from the given list.

E.g. In the screenshot below, the diagnosis 'hypertension' has been searched for.

The system will display a list of diagnosis having the key words that have been searched for. On having selected the appropriate diagnosis, it will be moved to the box on the right. This would indicate that the diagnosis has been selected.

Double clicking on any of the diagnosis in the list (in the box on the left) would also select the diagnosis (and move it to the box on the right); selecting the required diagnosis and selecting the arrow pointing to the right could also be used. In case any diagnosis has been wrongly selected, then double clicking on the diagnosis in the box on the right, would move it back to the box on the left, else the diagnosis could be selected and the arrow pointing to the left can be selected.

The screenshot displays the OPD entry screen for a patient named Shravani, aged 23 years. The 'Provisional Diagnosis' field contains the text 'hypert'. Below this field, a list of medical conditions is shown, with 'PREGNANCY INDUCED HYPERTENSION' highlighted. To the right of the list is a box for selected diagnoses, which is currently empty. Below the list is a section for 'Management plan' and 'Post for procedure'. At the bottom, there are fields for 'Internal referral' and 'External referral', and a section for 'OPD Visit Outcomes' with radio buttons for 'Follow up', 'Cured', 'Died', 'Reviewed', and 'Admit'. The interface includes a navigation menu at the top with options like Home, Find/Create Patient, Dictionary, Report, OPD, IPD, IAS, Billing, Radiology, Laboratory, Blood Bank, Cohort Builder, and Administration. The patient's location is 'MEDICINE OPD ROOM NO: 25' and the referral type is 'Revisit'.

In-case the doctor would want to add any specific details, there is a provision to add a note.

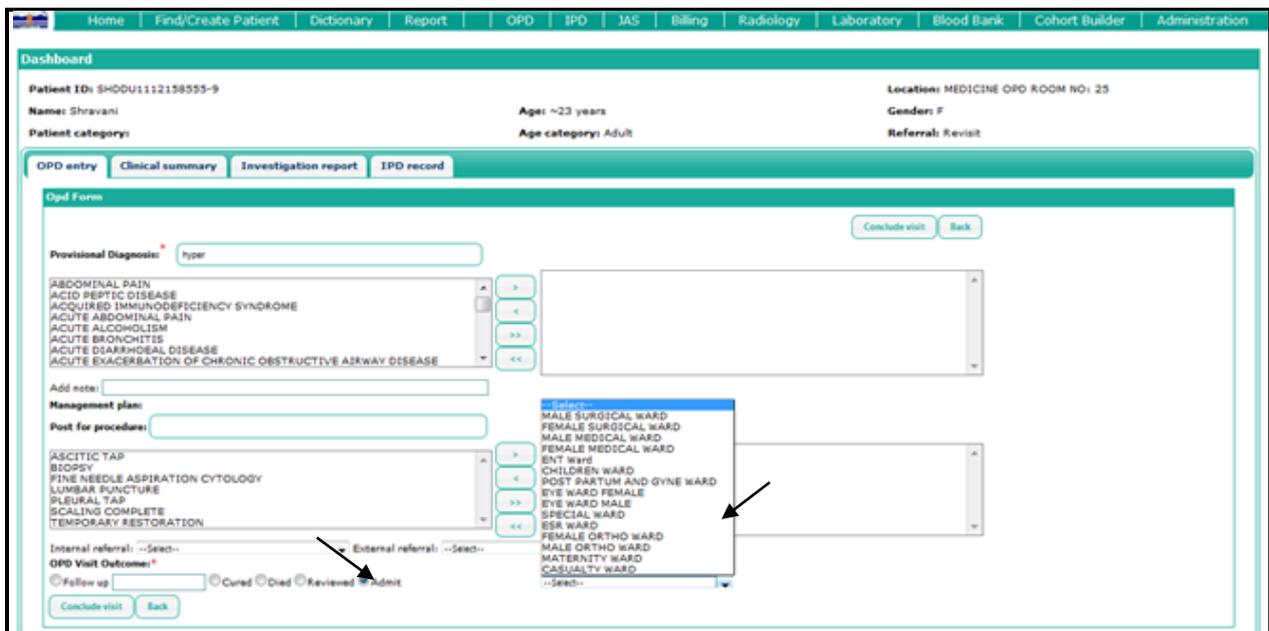
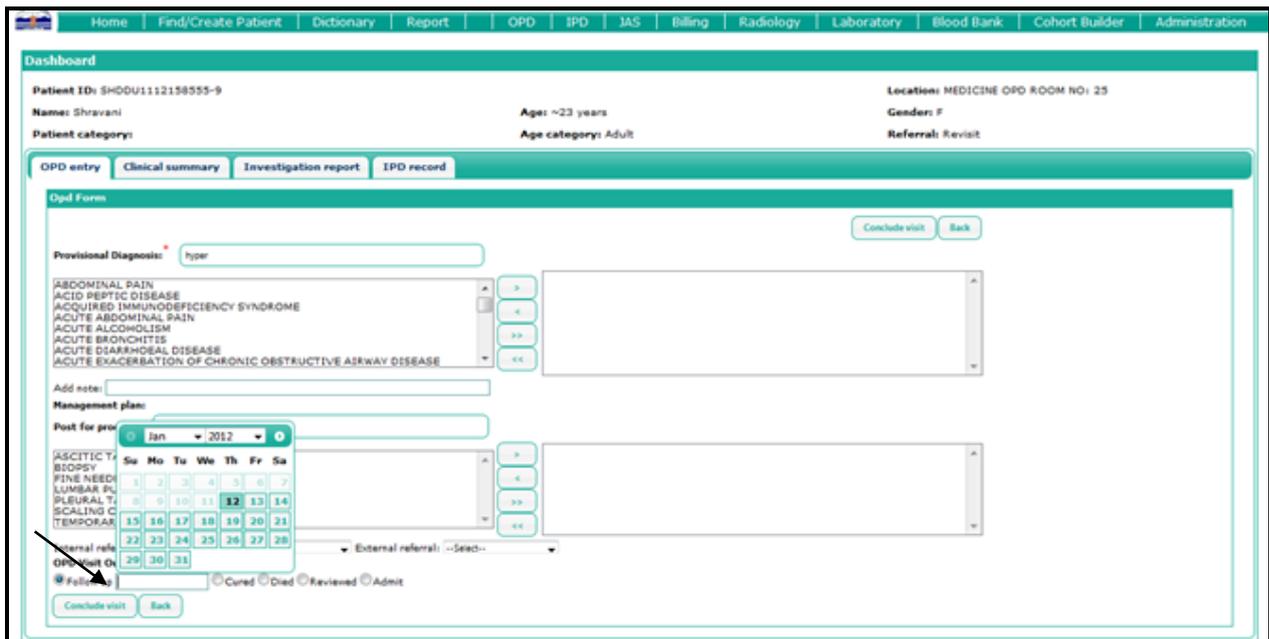
The user also has the option to post a patient to the minor OT for a procedure. The user would have to select a procedure from the given list, the same way as for the diagnosis.

The user could also refer a patient internally within the hospital to any other OPD. The user would have to the appropriate OPD to which the patient has to be referred to from the dropdown, As shown in the screenshot below:

The screenshot displays a medical software interface for an OPD (Outpatient Department) form. At the top, there is a navigation bar with options like Home, Find/Create Patient, Dictionary, Report, OPD, IPD, IAS, Billing, Radiology, Laboratory, Blood Bank, Cohort Builder, and Administration. Below this, the patient's details are shown: Patient ID: SHDDU1112158555-9, Name: Shrivani, Age: ~23 years, Gender: F, Location: MEDICINE OPD ROOM NO: 25, Patient category: (blank), Age category: Adult, and Referral: Revisit. The main section is titled 'Opd Form' and contains a 'Provisional Diagnosis' field with the text 'hyper'. Below this, there are two lists of medical conditions and OPD rooms. The first list includes conditions like ABDOMINAL PAIN, ACID PEPTIC DISEASE, ACQUIRED IMMUNODEFICIENCY SYNDROME, ACUTE ABDOMINAL PAIN, ACUTE ALCOHOLISM, ACUTE BRONCHITIS, ACUTE DIARRHEA, ACUTE EXACERBATION AND OBST, BLOOD BANK ROOM NO: 32, EYE OPD ROOM NO: 27, GYNECOLOGICS OPD ROOM NO: 12, ORTHOPEDIC OPD ROOM NO: 7, INLEP CLINIC : 35, MEDICINE OPD ROOM NO: 25, GENERAL OPD ROOM NO: 24, RADIOLOGICS OPD ROOM NO: 12, and RWAY DISEASE. The second list includes ASCITIC TAP, SURGICAL OPD ROOM NO: 28, BIOPSY, MCH CENTER ROOM NO: 10, FINE NEEDLE ASPIRATION/BIOPSY OPD ROOM NO: 4, LUMBAR PUNCTURE CLINIC ROOM NO: 38, PLEURAL TAP, MEDICAL EXAM, ROOM NO: 21, SCALING COMPLEMENTAL OPD ROOM NO: 30, TEMPORARY REEMERGENCY OPD ROOM NO: 33, and DOTS CENTER ROOM NO: 34. At the bottom, there is a section for 'OPD Visit Outcome' with radio buttons for 'Follow up', 'Cured', 'Died', 'Reviewed', and 'Admit'. An arrow points to the 'Follow up' option. There are also 'Conclude visit' and 'Back' buttons at the top right and bottom left of the form.

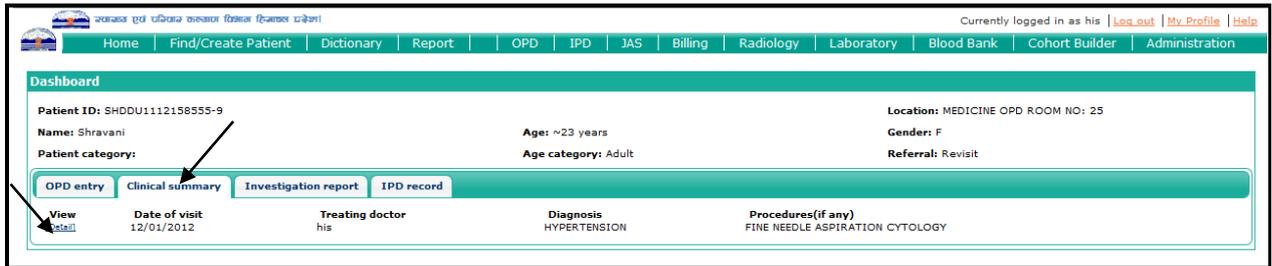
The user would then have to conclude the visit by selecting either of the given options –

- Follow up and selecting a follow up date (as shown in the screenshot below)
- Cured
- Died
- Reviewed
- Admit – on selecting the 'admit' option, a dropdown list having the names of all the wards will be displayed. The user would have to select the appropriate ward to which the patient has to be admitted

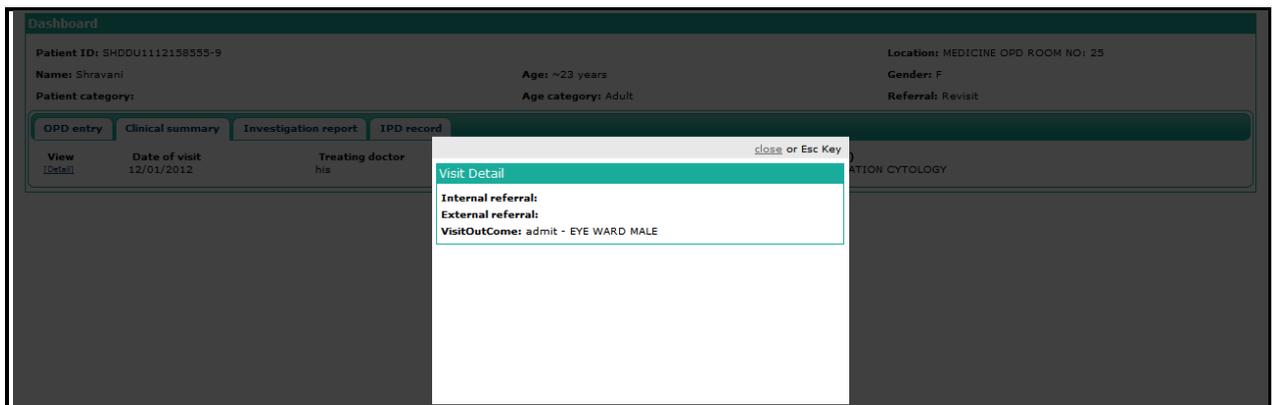


As explained above, when the admit option is selected, a list of all the wards in the hospital is displayed, from which the user would have to select the appropriate ward.

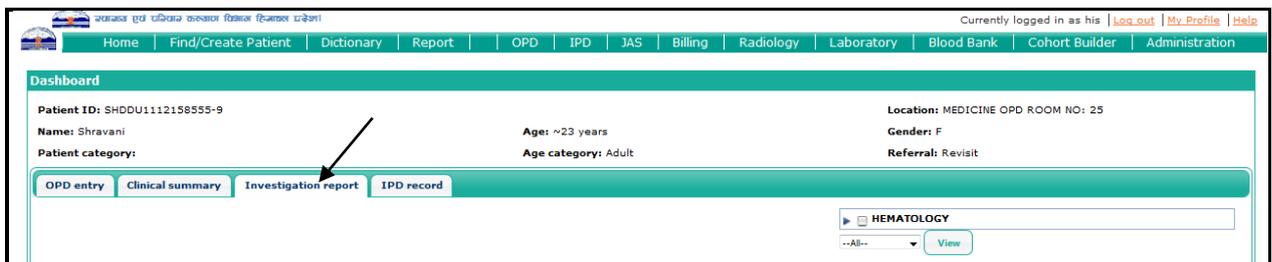
The user would also be able to view the previous clinical encounters of the patient at the hospital and the details of each of the encounters, by clicking on the clinical summary tab. *E.g. in the screenshot below we can see that the patient has had 3 previous clinical encounters. At a glance, the user would be able to see the date, name of the treating doctor, the diagnosis made at each encounter and if any procedures have been advised.*



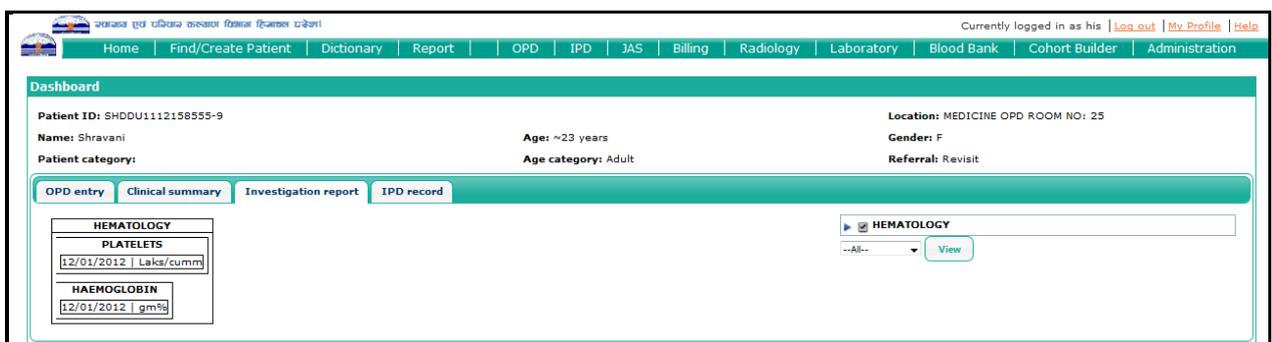
The user can also view the additional details of the encounter such as any internal referrals, external referrals and the visit outcome by clicking on the 'details' option. A window as shown below will be displayed:



The user can view the results of all the tests conducted by the patient by selecting the 'investigation report' tab. On having selected the investigations report tab, a screen as seen below will be displayed



Depending on the specific category of test results to be seen, the user would have to select that category.



In-case the patient has had a previous admission/ has been an in-patient, the user would be able to see the details of the admission in the IPD record tab.

Dashboard

Patient ID: SHDDU1112158555-9 Admitted patient: Location: MEDICINE OPD ROOM NO: 25
 Name: Shravani Age: ~23 years Gender: F
 Patient category: Age category: Adult Referral: Revisit

OPD entry Clinical summary Investigation report **IPD record**

Current Admission						
Admission date	Treating Doctor	Provisional Diagnosis	Final/Current Diagnosis	Surgery	Action	
12/01/2012	DR.ALOK	HYPERTENSION			Add/Edit final report	

Previous Admission						
Hospital	Admission date	Date of Discharge	Final Diagnosis	Final Procedures	Admission Outcome	Link to D/c Summary
			No data			

As shown in the screenshot above, the user would be able to see the details of hospital where the patient has been admitted, date of admission, date of discharge, the final diagnosis, any procedures that have been conducted, the admission outcome and the discharge summary.

In-case the patient is currently admitted in any ward of the hospital, the user would also be able to view the details of the current admission.