

Open Hospital 1.12.1 - User's Guide

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Informatici Senza Frontiere Onlus, 2022

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Open Hospital

1 Introduction

OH - Open Hospital (<https://www.open-hospital.org/>) is a free and open-source Electronic Health Record (EHR) software application. Open Hospital is deployed as a desktop application that can be used in a standalone, single user mode (PORTABLE mode) or in a client / server network configuration (CLIENT mode), where multiple clients and users connect to the same database server.

Open Hospital is developed in Java and it is based on open-source tools and libraries; it runs on any computer, requires low resources and is designed to work without an internet connection.

Open Hospital is the first of a set of software applications that ISF^[1] has developed to support the information management and the activities of hospitals and health centers in the simplest manner possible, by providing tools for administrative operations (like registering patients, and managing laboratory analysis and pharmaceutical stocks) and for the production of detailed statistics and reports. It was first deployed in 2006 at the St. Luke Hospital in Angal (Uganda) and it is now used in dozens of different locations around the world.

1.1 Main Features

OH - Open Hospital features include:

- Pharmacy management
- Laboratory management
- OPD management
- Patient admission and discharge management
- Pregnancy management
- Malnutrition control management
- Vaccines database
- Patient billing support
- Therapy management
- Appointment scheduling
- Internal communication
- Statistics and printing

1.2 About this User Manual

In the following chapters, all the information needed to correctly and efficiently use the OH software is presented. More information can be found on the Open Hospital web site: <https://www.open-hospital.org>.



The information needed to install, configure or administer Open Hospital is not included in this manual; please refer to the *Open Hospital Administrator's Guide* supplied with the software.

1.2.1 Help

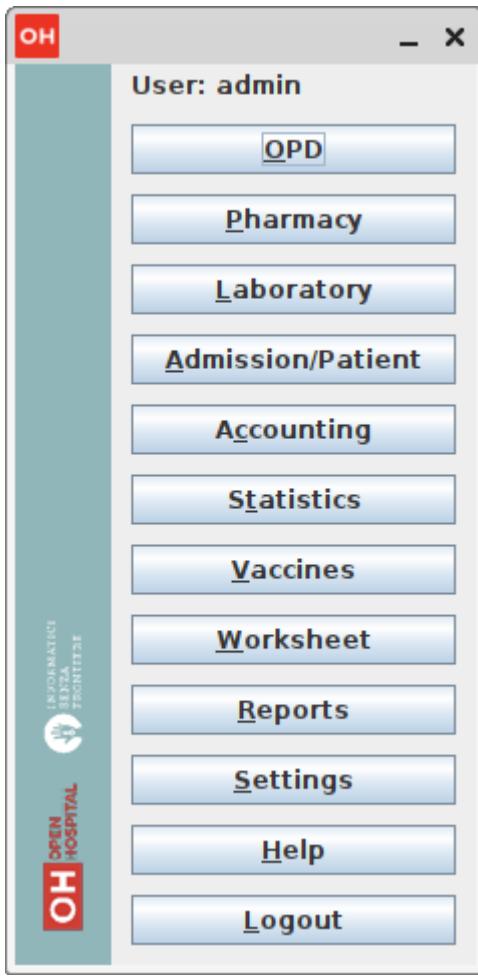
- The **Help** function available at the bottom of the main MENU of Open Hospital provides access to this document offline.

1.2.2 Legend

In this document, the following conventions are used:

- When a text is written in bold and highlighted in grey – like **Pharmacy** or **New** – it indicates a function of the application and it is also called a “button”. **Pharmacy** is a button.
- When a text is written in bold italics (as an example, **Laboratory Browser**), it indicates the screen with the name “Laboratory Browser” (see example below). Each screen of the application is called a window. **Laboratory Browser** is a window.
- When a text is written in bold as **Search patient visits**, it indicates a function of the application, or an area of the window (for example, **Data table**).
- Each button always has a single letter with an underscore. The functionality offered by the button is made available by simultaneously pressing the “Alt” key and the “underlined” key (in the example of **Pharmacy**, press “Alt” and “P”). This behavior is common throughout the application and allows the user to operate (almost) without the use of the mouse. In this document, the “Alt” key and the “P” key will be indicated as “Alt + P”.

Click with the mouse on the button or press "Alt + P" to enter the Pharmacy



- Each screen of the application is called “window”. Most complex windows of the application are composed of more than one area. Areas can be a **Selection panel**, a **Data table**, or a **Buttons panel** (see *Laboratory Browser* window below).

The name of this window.

Area where you can apply search criteria is called the “**Selection panel**”.

Area where data are displayed is called the “**Data table**”.

Area where you can choose the function to be applied is called the “**Button panel**”.

Laboratory Browser				
Select an exam	DATE	PATIENT	EXAM	RESULT
All	15/03/2021 19:41:32	Jeffreys Risa	3.1 Blood Slide (Malaria)	NEGATIVE
	15/03/2021 19:41:32	Jeffreys Risa	3.2 Blood Slide (OTHERS, E.G. TRIUPHANOSOMIAS, MICRIFI...)	NEGATIVE
	15/03/2021 14:35:46	Depuy Darrell	7.3.3 GOT	<= 50 (NORMAL)
	15/03/2021 14:35:46	Depuy Darrell	7.3.4 ALT/GPT	> 50
	15/03/2021 14:35:26	Curtis Courson	8.1 OCCULT BLOOD	NEGATIVE
	15/03/2021 14:35:09	Nieves Julietta	3.1 Blood Slide (Malaria)	NEGATIVE
	15/03/2021 14:35:09	Nieves Julietta	3.21 Trypanosomiasis	NEGATIVE
	15/03/2021 14:35:09	Nieves Julietta	3.6 CSF WET PREP	NEGATIVE
	15/03/2021 12:32:17	Sara Hocklington	5.4 LEISMANIA	NEGATIVE
	15/03/2021 12:32:17	Sara Hocklington	7.4.1 CREATININA	1.4 - 2.5
	15/03/2021 12:16:50	Eddings Carmine	1.5 ESP	NORMAL
	15/03/2021 22:47:53	Geremia Dickinson	2.3 Grouping	AB RH+
	15/03/2021 22:47:53	Geremia Dickinson	7.4.1 CREATININA	< 1.4 (NORMAL)
	15/03/2021 01:17:47	Kenty Willis	3.1 Blood Slide (Malaria)	NEGATIVE
	15/03/2021 01:17:47	Kenty Willis	4.6 OTHER C&S	NEGATIVE
	15/03/2021 00:54:26	Bumpers Ferdinand	2.2 Comb's Test	NEGATIVE
	15/03/2021 00:54:26	Bumpers Ferdinand	3.1 Blood Slide (Malaria)	NEGATIVE
	13/03/2021 00:50:42	Mary Garrington	URINALYSIS	Multiple results
	23/11/2020 16:02:33	Quinlan Coors	7.1 PROTEIN	NEGATIVE
	23/11/2020 16:02:33	Quinlan Coors	7.2 SUGAR	NORMAL
	21/11/2020 22:40:40	Robert Kittelson	1.4 Film Comment	0
	21/11/2020 22:40:40	Robert Kittelson	1.6 Sickling Test	NEGATIVE
	21/11/2020 22:40:40	Robert Kittelson	4.1 CULTURE AND SENSITIVITY (C&S) FOR HAEMOPHILUS I...	POSITIVE
	21/11/2020 22:40:18	Janusz Laverda	1.4 Film Comment	0
	21/11/2020 22:08:31	Vincent Arata	4.6 OTHER C&S	NEGATIVE
	21/11/2020 22:08:31	Vincent Arata	5.4 LEISMANIA	NEGATIVE
	21/11/2020 22:08:31	Vincent Arata	6.4 HEPATITIS	NEGATIVE
	21/11/2020 02:23:20	Genna Susterlind	6.4 HEPATITIS	NEGATIVE
	21/11/2020 02:23:20	Genna Susterlind	6.5 OTHERS E.G BRUCELLA, RHEUMATOID FACTOR, WEIL FE...	NEGATIVE
	21/11/2020 01:52:02	Jestine Dacruz	5.5 ZN	NEGATIVE
	21/11/2020 01:47:45	Stanton Durrah	7.4.1 CREATININA	< 1.4 (NORMAL)
	21/11/2020 01:47:45	Stanton Durrah	7.4.2 UREA	10-55 (NORMAL)
	21/11/2020 01:41:32	Shannan Matias	6.2 TPHA	POSITIVE
	21/11/2020 01:41:18	Eddy Rambin	7.4.1 CREATININA	
	21/11/2020 01:41:08	Jasmine Guan	3.1 Blood Slide (Malaria)	

- To highlight an entry (for example, a single line in a **Data table**), click the mouse on the entry. The entry (the entire line) is then highlighted in blue. This behavior is valid throughout the application (see the example below):

Pharmaceutical Browser						
Type	Code	Description	PcsXpck	Stock	Crit. Level	Out of Stock
Laboratory		4 Dimethyl Aminobenzaldehyde	0	0	0	<input checked="" type="checkbox"/>
Drugs		Acetazolamide 250mg Tab	0	0	0	<input checked="" type="checkbox"/>
Laboratory		Acetic Acid Glacial 1 ltr	0	0	0	<input checked="" type="checkbox"/>
Laboratory		Aceton 99% 1ltr	0	0	0	<input checked="" type="checkbox"/>
Drugs		Aclclovir cream	0	320	2	<input type="checkbox"/>
Drugs		Acyclovir 200mg Tab	0	1,210	0	<input type="checkbox"/>
Surgery		Adhesive Tape 2.5cm x 5m	0	20	0	<input type="checkbox"/>
Surgery		Adhesive Tape 2.5cm x 5m	0	0	0	<input checked="" type="checkbox"/>
Drugs		Adrenaline 1mg/ml 1ml Amp	0	0	0	<input checked="" type="checkbox"/>
Surgery		Air ring set 43x15cm, rubber with pump	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 0	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 00	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 1	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 2	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 3	0	0	0	<input checked="" type="checkbox"/>
Drugs		Albendazole 200mg Tab	0	37,200	450	<input type="checkbox"/>
Drugs		Albendazole 400mg Tab	0	0	0	<input checked="" type="checkbox"/>
Drugs		Aminophylline 25mg/ml 1.0ml Amp	0	190	0	<input type="checkbox"/>
Drugs		Aminophylline 100mg Tab	0	8,981	0	<input type="checkbox"/>
Drugs		Amitriptyline 25mg Tab	0	5,600	0	<input type="checkbox"/>
Laboratory		Amonium Oxalate	0	0	0	<input checked="" type="checkbox"/>
Drugs		Amoxycillin /Clavulanate 375mg Tab	0	0	0	<input checked="" type="checkbox"/>
Drugs		Amoxycillin 125mg/5ml Powd. Susp 100ml	0	180	0	<input type="checkbox"/>
Drugs		Amoxycillin 250mg Caps	0	56,080	0	<input type="checkbox"/>
Drugs		Amphotericin B 50mg Vial	0	0	0	<input checked="" type="checkbox"/>
Drugs		Ampicillin 500mg Vial	0	650	0	<input type="checkbox"/>
Chemical		Anti Serum A 10ml	0	0	0	<input checked="" type="checkbox"/>

Entry (line) is highlighted.

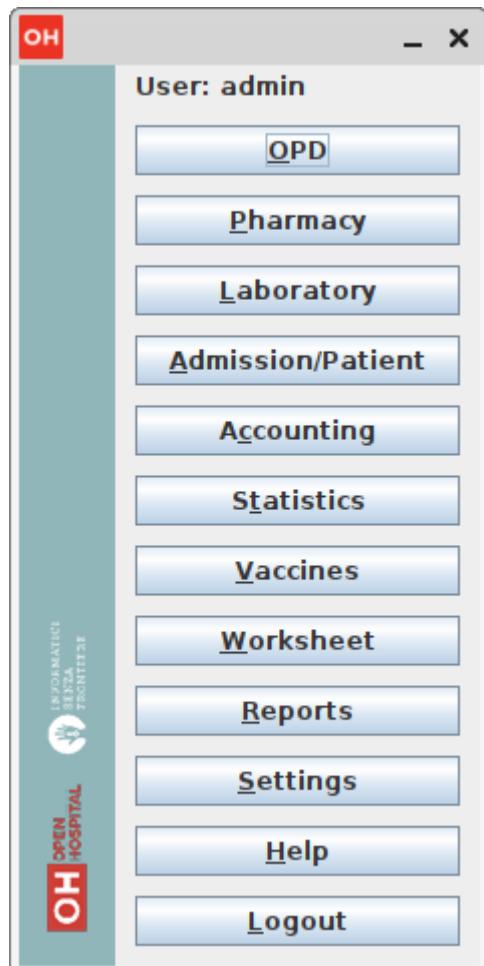
2 Start the OH Application

To run Open Hospital, double-click the program icon on the desktop; an information image (splash image) appears for a few seconds and then the main *menu* of the OH application is shown.

If no desktop shortcut is present, open the folder where the software has been installed and double-click on the platform-specific startup script (**oh.bat** on Windows / **oh.sh** on Linux).

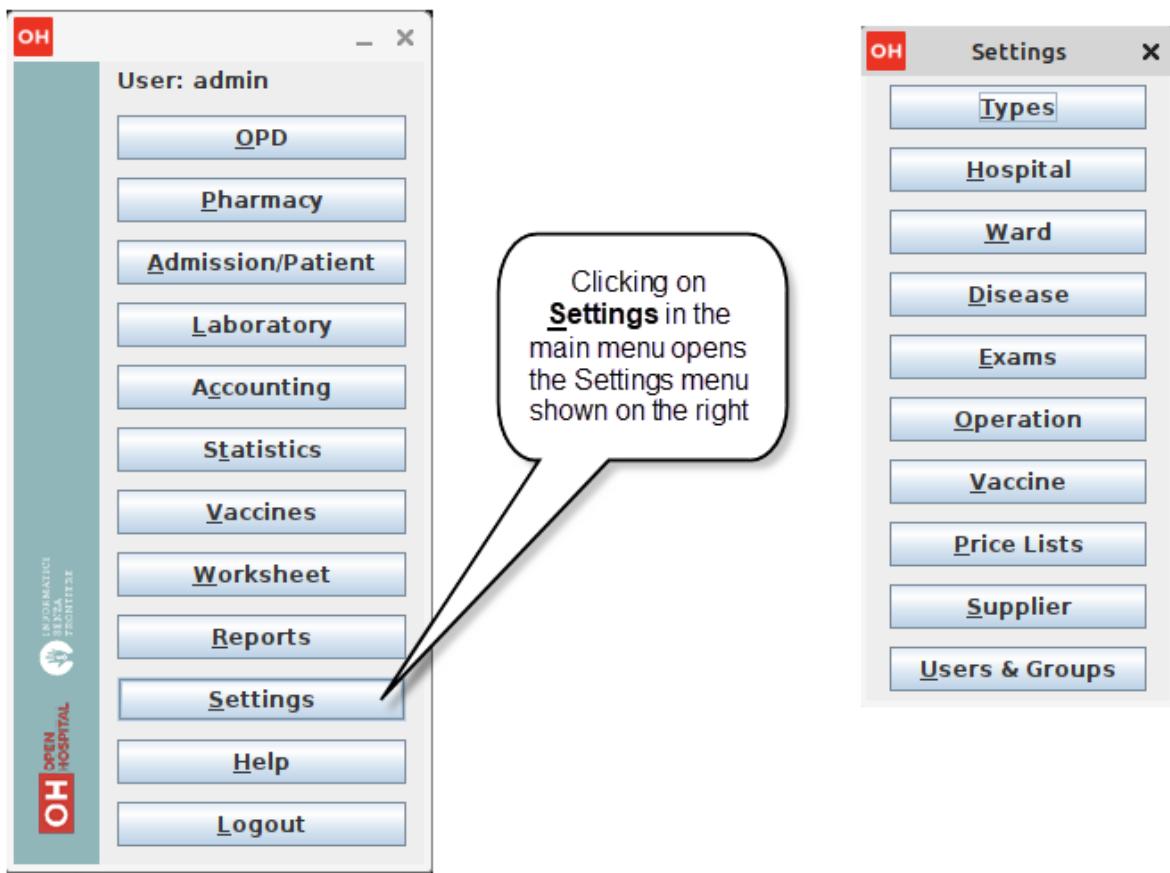
2.1 Main menu

The default Main Menu of the OH application shows the available functions.

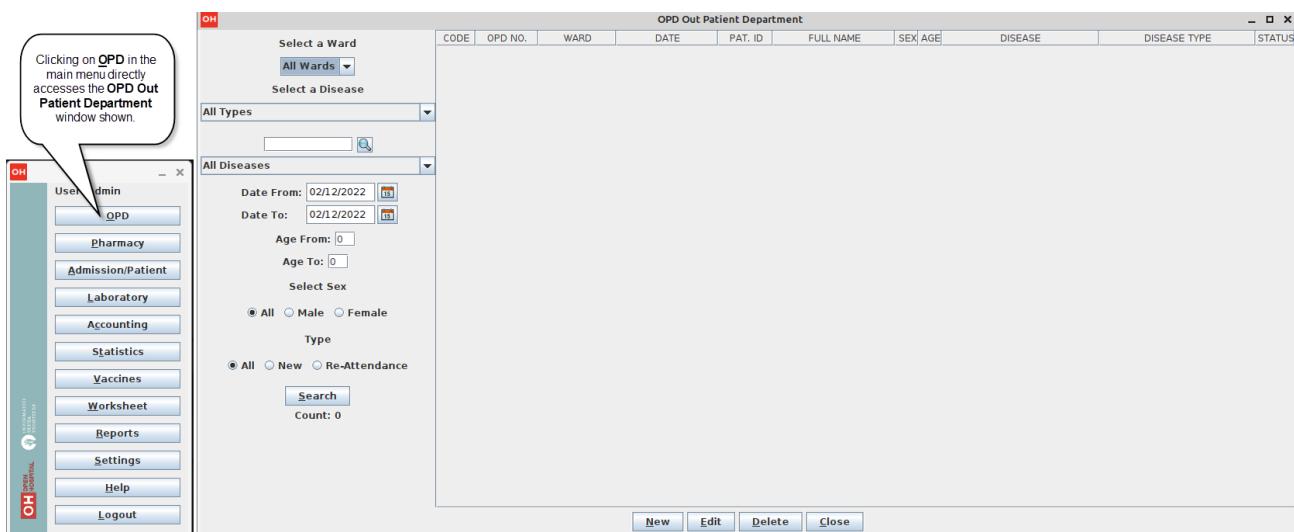


2.2 Functions

From the main menu, it is possible to access functions and submenus. In the example below, selecting the **Settings** button leads to the OH settings submenu:



Some menu items lead directly to a specific function of the application (see the following example with the **OPD Out Patient Department** window):



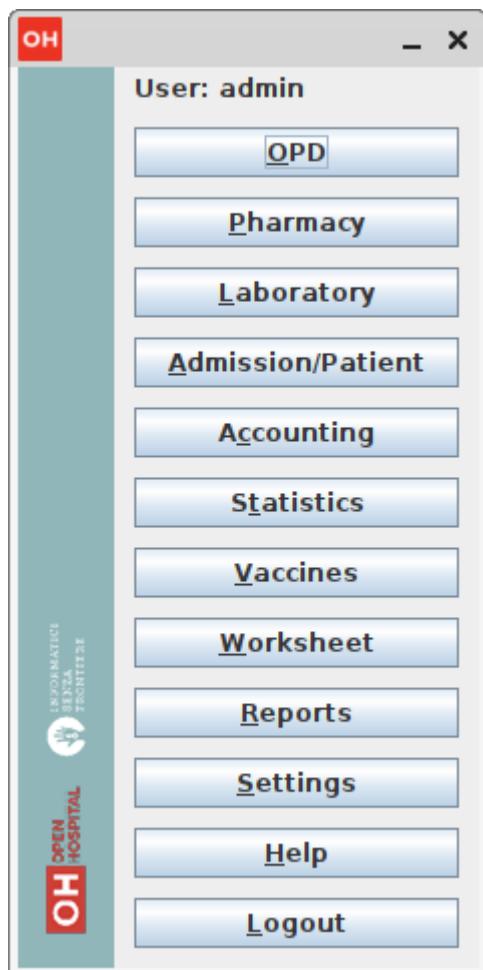
3 Outpatient Department Management (OPD)

3.1 Main Characteristics

The function of the Out Patient Department (OPD) allows the recording of ambulatory patient visits, searching, reviewing, editing, and eventually deleting visits. In addition, queries necessary for statistical purposes are available.

Click on the **OPD** button or press “Alt + O” in the main **menu** to access the OPD function.

Press the **OPD** button or “Alt + O”.



3.2 Functions of Out Patient Department

All functions available under **OPD** are accessible from the window **OPD Out Patient Department**, shown below:

The screenshot shows the 'OPD Out Patient Department' window. On the left, there is a 'Selection panel' with fields for 'Search by Code (press ENTER)', 'Other Filters' (Ward, Disease Type, Search Disease, Diseases), gender selection (All, Male, Female), date range (Date From: 30/01/2023, Date To: 30/01/2023), age range (Age From: 0, Age To: 0), patient type (All, New, Re-Attendance), and a 'Patient Type' dropdown (My Patients, All). Below these are 'Search' and 'Reset' buttons, and a 'Count: 0' label. On the right, there is a large empty grid area with columns labeled CODE, OPD NO., WARD, DATE, PAT ID, FULL NAME, SEX AGE, DISEASE, DISEASE TYPE, STATUS, and USER.

The following functions are available from the **Buttons panel** of the window ***OPD Out Patient Department***:

- **New:** create a new patient visit.
- **Edit:** modify an existing patient visit.
- **Delete:** delete a patient visit.
- **Close:** exit from the ***OPD Out Patient Department*** function.

Furthermore, a search function (**Search**) is available using the **Selection panel** on the left side of the window.

3.2.1 Search Patient Visits (**Search**)

Queries about ambulatory patient visits can be done using the search criteria available on the **Selection panel** area of the window (on the left side of the window).

The following fields are available to select or narrow the resulting matches:

- **Search by code** (only one can be used at a time)
 - **Code:** Search an OPD visit by its code. Each code is unique, so only **ONE** result is expected
 - **OPD No.:** Search OPD visits by their Progressive in Year. This starts every year from 1, so one or more results are expected
 - **Pat. Id:** Search OPD visits by Patient ID. One or more results are expected



to apply the above **Exclusive Filters** one has to just type a *number* and press **ENTER**.

- **Other filters** (they are all applied when pressing **Search**)
 - **Ward:** Select a specific OPD ward
 - **Disease type:** Select a specific disease type or all disease types

- **Disease:** Select either a specific disease or all diseases, or search using partial matches by typing some letters in the search field
- **Sex:** Select patients by sex: All / Male / Female
- **Date:** “Date From” and “Date To” to select all visits occurring during the specified period
- **Age:** “Age From” and “Age To” to select patients by age
- **Type of patient:** Select visits by type of attendance: All / New / Re-Attendance
- **User:** Select visits by doctor (USER column): only visits inserted by the logged user (me) or All

After specifying the selection criteria, press the **Search** button. The counter at the bottom of the window indicates how many visits match the specified criteria, and the individual visit data is shown in the **Data table** area. The **Reset** button blanks all filters to default values.

The example below shows all the visits for patients with *asthma* disease admitted in the period from 29-5-2020 until 5-6-2021; all ages, all sexes, and all patient types are included.

OPD Out Patient Department

Search by Code (press ENTER)

Code	OPD No.	WARD	DATE	PAT. ID	FULL NAME	SEX	AGE	DISEASE	DISEASE TYPE	STATUS	USER
400	392	OPD	23/11/2020 16:00	470	Leddy Everette	M	44	Asthma	NON-COMMUNICABLE DISEASES	New	admin
356	348	OPD	03/11/2020 18:23	448	Jurgensen Fritz	M	41	Asthma	NON-COMMUNICABLE DISEASES	New	admin
348	340	OPD	03/11/2020 18:15	443	Abboud Jeanene	F	41	Asthma	NON-COMMUNICABLE DISEASES	New	admin
257	250	OPD	03/11/2020 16:51	246	Fredrickson Dennra	M	18	Asthma	NON-COMMUNICABLE DISEASES	New	admin
207	200	OPD	03/11/2020 16:09	194	Schell Benjamin	M	18	Asthma	NON-COMMUNICABLE DISEASES	New	admin
168	161	OPD	03/11/2020 09:24	375	Nicolai Adam	M	75	Asthma	NON-COMMUNICABLE DISEASES	New	admin
158	151	OPD	02/11/2020 09:14	365	Reardon Mora	F	28	Asthma	NON-COMMUNICABLE DISEASES	New	admin
100	94	OPD	02/11/2020 20:54	168	Molly Rod	F	18	Asthma	NON-COMMUNICABLE DISEASES	Re-Att.	admin
41	38	OPD	02/11/2020 19:45	108	Ivery Hyman	F	40	Asthma	NON-COMMUNICABLE DISEASES	Re-Att.	admin
22	20	OPD	02/11/2020 19:14	85	Thredgill Mack	F	60	Asthma	NON-COMMUNICABLE DISEASES	Re-Att.	admin
3	2	OPD	02/11/2020 16:57	51	Abramo Oliver	M	70	Asthma	NON-COMMUNICABLE DISEASES	Re-Att.	admin

Other Filters

Search Disease:

Asthma

Anaemia

Animal/snake bite

Anxiety disorders

Asthma

Benigne neoplasm's (all type)

Cancer of the breast

Caposis and other skin cancers

Cardiac arrest

Age To: 0

Patient Type: All New Re-Attendance

My Patients All

Count: 11

3.2.2 Create a New Patient Visit (New)

Press the **New** button in the **OPD Out Patient Department** window to access the **New OPD Registration** window, shown below.

New OPD Registration

New Attendance Referral Referred To

Attendance Date

Disease Type

Diagnosis

Diagnosis n.2 (full list)

Diagnosis n.3 (full list)

Age:

Sex: Male Female

To record a visit, enter data into the following fields:

- **Type of attendance:** This field is not meant to distinguish whether or not an individual is new in the ambulatory (that is, whether this is the absolute first time they have entered the ambulatory). The NEW ATTENDANCE selection indicates whether the patient comes to the ambulatory to report a new health issue or new disease for which no care has been previously addressed or recorded. This could be their initial visit or their n-th time in the ambulatory; it does not matter with regard to this field. If this visit is for an issue or disease previously addressed, the field is not selected and records are created for the patient with regard to the follow-up care and instructions for recovery.

Example: A patient comes to the ambulatory because they report a cut; this event is recorded as NEW ATTENDANCE. The doctor sutures the wound and invites the patient to come back ten days later. When the same patient comes back after ten days to have his/her stitches removed, a new OPD record is created, without the NEW ATTENDANCE flag set.

- **Attendance Date:** The date on which the patient is seen for the recorded activity.
- **Disease Type:** By selecting a *Disease Type*, the first diagnosis list will contain only related diseases. The second and third list continues to contain all diseases.



Disease Types are defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

- **Diagnosis:** A maximum of three diseases can be diagnosed per attendance (“new attendance” or “re-attendance” does not matter in this context). Normally, the patient reports at least one visit reason, but it may happen that during the same visit, the doctor finds other concurrent pathologies. Thus it is possible to record up to a maximum of three (the first being the only one mandatory) diagnoses.

It is possible to use filters to find diseases more easily. To do so, enter a text fragment in the search field that is part of the disease name. The closer the search text comes to the name of the

disease being searched, the more precise the search is.

*Example: In the **OPD Out Patient Department** window, only the first diagnosis and its type are shown, but all the corresponding data is stored and available in reports and for searching.*

- **Age:** The patient's age; the valid age range is 0-120.
- **Sex:** The patient's sex; either male or female.

When finished entering data, the **Buttons panel** has the following choices:

- OK: confirm and record the patient's visit.
- Cancel: close the window and return to the **OPD Out Patient Department** window.

3.2.3 Modify a Recorded Patient Visit (Edit)

In order to modify a visit, first highlight it in the **OPD Out Patient Department** window. Once the visit has been highlighted, press the **Edit** button. When the **Edit OPD Registration** window is shown, all the data can be changed or modified.

The screenshot shows the 'New OPD Registration' dialog box. At the top, there are three checkboxes: 'New Attendance' (checked), 'Referral', and 'Referred To'. Below that is the 'Attendance Date' field, which displays '29/11/2020' and includes a date picker with the number '15' highlighted. The 'Disease Type' dropdown is set to '2. OTHER INFECTIOUS/COMMUNICABLE DISEASES'. The 'Diagnosis' field contains 'Eye Infection'. Below it is the 'Diagnosis n.2 (full list)' field, which is currently empty. The 'Diagnosis n.3 (full list)' field is also empty. Underneath these is an 'Age:' field showing '68'. At the bottom, there are 'Sex:' radio buttons for 'Male' (selected) and 'Female'. At the very bottom are two buttons: 'OK' and 'Cancel'.

Once the data have been inserted, the **Buttons panel** shows the following choices:

- OK: confirm new values (all the previous values will be lost).
- Cancel: close the window and return to the **OPD Out Patient Department** window without applying any changes.

3.2.4 Delete a Recorded Patient Visit (Delete)

In order to delete a visit, first highlight it in the **OPD Out Patient Department** window. Once the visit has been highlighted, press the **Delete** button. The highlighted record is shown in a confirmation dialog: now the record can be deleted. Deleted records are no longer available.



The **Buttons panel** shows the following choices:

- Yes: confirm the deletion of the visit.
- No: close the window and return to the *OPD Out Patient Department* window without deleting the visit.

3.3 OPD Extended

The OPD functionality can be extended by changing the *OPDEXTENDED* flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

3.3.1 Additional Features

Press the New button in the *OPD Out Patient Department* window to access the *New OPD Registration* window, shown below.

The screenshot shows the 'New OPD Registration' window with several numbered callouts:

- 6**: Radio button for 'Re-Attendance' (selected).
- 1**: Attendance Date field (30/01/2023) and Time field (22:19).
- 2**: OPD No. field (1).
- 3**: Search field containing 'tamie' with a dropdown showing 'Johanson Tamie'.
- 4**: Note field showing '<none>'.
- 5**: Radio button for 'Patient' (selected).
- 7**: Next visit date field and Ward/OPD dropdown.
- 8**: Notes & Symptoms panel.

Below the main form, there are tabs for 'Patient' (selected) and 'Operation'. The 'Patient' tab displays patient details:

First Name	Johanson
Last Name	Tamie
Address	Gulcon St.
City	Butte Town
Next of Kin	
Age	3y 7m 15d
Sex	<input type="radio"/> Male <input checked="" type="radio"/> Female

At the bottom are buttons for **OK**, **Anamnesis**, **Examination**, and **Cancel**.

The OPD Extended module affords the following additional features:

- Calendar (1): to choose the visit date
- OPD number (2): the progressive number per year automatically set by the system; changes to the value can be made only at the first registration in a year, and then it will be increased automatically at each registration. The OPD number **MUST** be unique for each year.
- Registered Patient (3): before choosing a disease, first select a patient from the drop-down list (this is **required**); to find a patient, use the nearby search field by typing part of the patient's name or code. This improves the reliability of reports and statistics, and is a service to the patient as it accounts for the patient's history.
- Radio box (5): to distinguish whether an individual is new (**New Attendance**) or a (**Re-Attendance**) in the ambulatory. The **New Attendance** selection indicates that the patient came to the ambulatory to report a new health issue or new disease for which no care has been previously provided and/or addressed. This could be their initial visit or their n-th time in the ambulatory; it does not matter for this selection. The important criteria for selecting **New Attendance** is that the problem under consideration is a new issue; that is, one that has not been dealt with previously. For an issue or disease previously dealt with but not completely addressed (that is, completely cured or healed), **Re-Attendance** is selected and records are created for the patient in regard to the follow-up care and instructions for recovery. Any other follow-up visits for the same issue are also marked as **Re-Attendance**.

Example: A patient comes to the ambulatory because they report a cut; this event is recorded as a *New Attendance*. The doctor sutures the wound and invites the patient to come back in ten days. When the same patient comes back after ten days to have his/her stitches removed, a new OPD record is created with the *Re-Attendance* flag set, as this visit is a continuation of the previous visit and medical problem.

- Once a patient is selected and if a previous OPD visit is found, special fields are populated with the most recent visit of the patient (4), his/her personal data (5), and the **Re-Attendance** radio box will be selected automatically upon selection of the main (first) disease (6);
- It is now possible to set the next appointment date (7) and in what ward (OPD or IPD). This automatically schedules a visit visible in [Therapy Management](#) and [Worksheet](#).
- Selecting the trash can icon (9) clears the next visit information (date, time and ward) and deletes the appointment if previously specified.
- The selection of the OPD ward (8) is required so as to specify where the visit is taking place. After the first selection in a session, the application remembers the selection to ease the data entry.
- If a new attendance for this patient is required, click the "New Attendance" (6) radio box and proceed normally.
- If editing an old OPD, it is possible to change everything except the patient to whom the OPD refers, and the "New Attendance" radio box.
- In the event that the selected patient's personal data need to be updated, it is possible to click on the Edit icon  near his/her name; a new window shows the patient's personal information ready for modification.
- In the event that the patient is not yet registered, the <**new patient**> entry can be selected to register a new patient; after registration, the program returns to the OPD window and the new patient is selected.
- If the user is enabled by the Administrator (see [Users & Groups](#)), the following is shown:
 - the **Examination** button function (see [Patient examination](#))
 - the **Operation** tab after the patient's tab (5) to record small surgeries and other interventions (see [Operations](#)) as well as in Admission (see [Insert or Modify Surgery Data](#)).

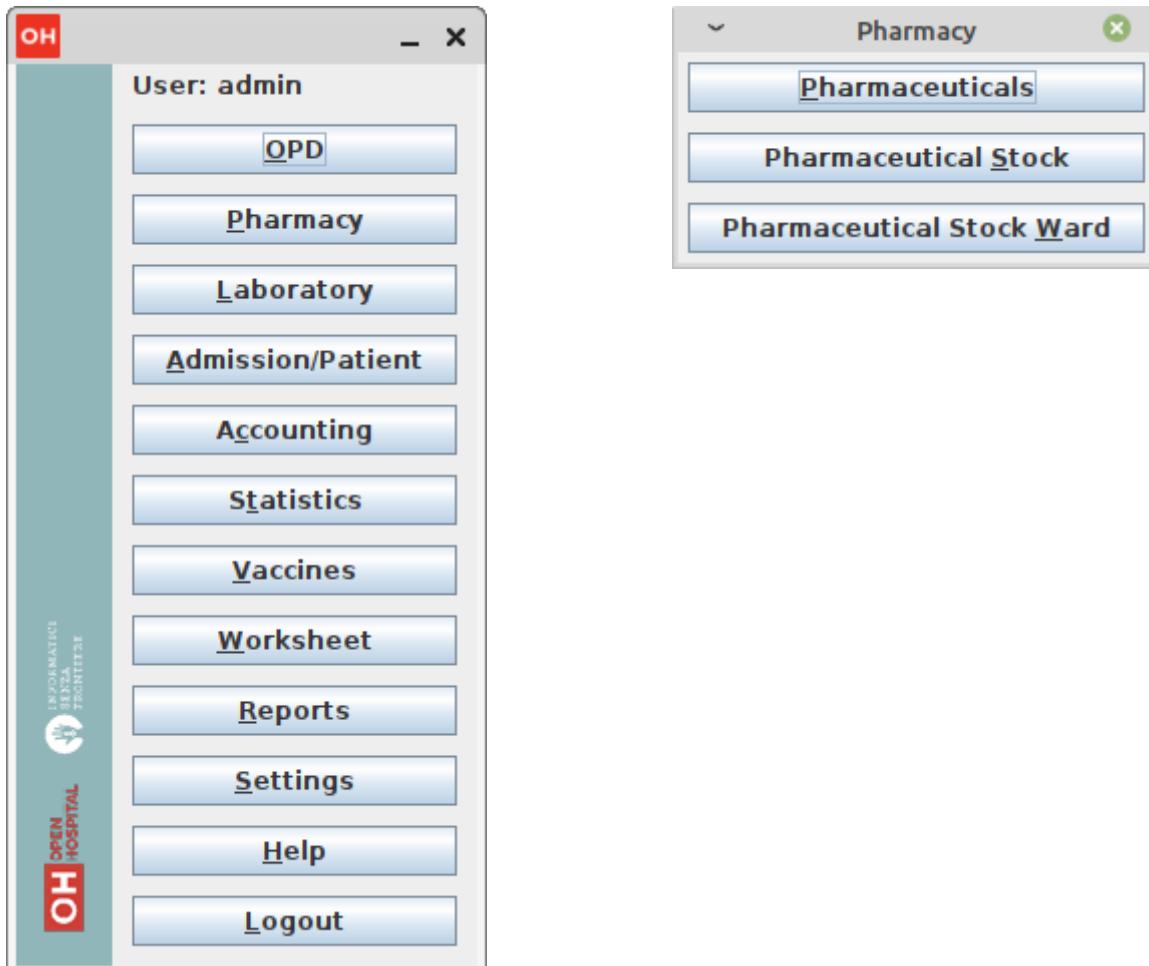


For OPD and IPD wards, see [Ward settings](#).

4 Pharmacy (Pharmacy)

Pressing **Pharmacy** from the main menu provides access to the Pharmacy menu. From the Pharmacy menu, the following functions are available: **Pharmaceuticals**, **Pharmaceuticals Stock**, and **Pharmaceuticals Stock Ward**.

*Submenu: Press the **Pharmacy** button or “Alt + P” to open the Pharmacy submenu*



i Pharmaceuticals Stock Ward functionality can be disabled by changing the INTERNALPHARMACIES flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

4.1 Pharmaceuticals (Pharmaceuticals)

4.1.1 Main Characteristics

Pharmaceutical functions allow for the insertion, modification, and deletion of pharmaceuticals. Moreover, it provides important information about pharmaceuticals:

- the current quantity lying in the stock
- the limit quantity that defines when a pharmaceutical is going out of stock
- if the pharmaceutical is out of stock

- the drugs expiring today or within a specified time period



In Open Hospital, to identify pharmaceuticals, sometimes the word, “pharmaceutical” is used and sometimes the synonym “medical” is used.

4.1.2 Functions of Pharmaceuticals

To access the functions of Pharmaceuticals, press **Pharmaceuticals** in the Pharmacy menu.

All functions available under Pharmaceuticals are accessible from the **Pharmaceutical Browser** window, shown below. It displays all the pharmaceuticals available in the hospital.

Pharmaceutical Browser						
TYPE	CODE	DESCRIPTION	PcsXPck	STOCK	CRIT. LEVEL	OUT OF STOCK
Laboratory		4 Dimethyl Aminobenzaldehyde	0	3	5	<input type="checkbox"/>
Drugs		Acetazolamide 250mg Tab	0	0	0	<input checked="" type="checkbox"/>
Laboratory		Acetic Acid Glacial 1 ltr	0	0	0	<input checked="" type="checkbox"/>
Laboratory		Aceton 99% 1ltr	0	0	0	<input checked="" type="checkbox"/>
Drugs		Aciclovir cream	0	320	2	<input type="checkbox"/>
Drugs		Acyclovir 200mg Tab	0	1,210	0	<input type="checkbox"/>
Surgery		Adhesive Tape 2.5cm x 5m	0	20	0	<input type="checkbox"/>
Surgery		Adhesive Tape 7.5cm x 5m	0	0	0	<input checked="" type="checkbox"/>
Drugs		Adrenaline 1mg/ml 1ml Amp	0	0	0	<input checked="" type="checkbox"/>
Surgery		Air ring set 43x15cm, rubber with pump	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 0	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 00	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 1	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 2	0	0	0	<input checked="" type="checkbox"/>
Surgery		Airway Guedel Size 3	0	0	0	<input checked="" type="checkbox"/>
Drugs		Albendazole 200mg Tab	0	37,200	450	<input type="checkbox"/>
Drugs		Albendazole 400mg Tab	0	0	0	<input checked="" type="checkbox"/>
Drugs		Aminophylline 25mg/ml/1.0ml Amp	0	190	0	<input type="checkbox"/>
Drugs		Aminophylline 100mg Tab	0	8,981	0	<input type="checkbox"/>
Drugs		Amitriptyline 25mg Tab	0	5,600	0	<input type="checkbox"/>
Laboratory		Amonium Oxalate	0	0	0	<input checked="" type="checkbox"/>
Drugs		Amoxycillin /Clavulanate 375mg Tab	0	0	0	<input checked="" type="checkbox"/>
Drugs		Amoxycillin 125mg/5ml Powd. Susp 100ml	0	180	0	<input type="checkbox"/>
Drugs		Amoxycillin 250mg Caps	0	56,080	0	<input type="checkbox"/>
Drugs		Amphotericin B 50mg Vial	0	0	0	<input checked="" type="checkbox"/>
Drugs		Ampicillin 500mg Vial	0	650	0	<input type="checkbox"/>
Chemical		Anti Serum A 10ml	0	0	0	<input checked="" type="checkbox"/>

Select type ALL New Edit Delete Export Stock StockCard Order Expiring AMC Close

If the pharmaceutical quantity is under the critical level, it is shown in RED.

If the pharmaceutical quantity is zero, it is shown in GRAY and the square in the last column is checked.

The following functions are accessible from the **Buttons panel** of the **Pharmaceutical Browser** window:

- New:** register a new pharmaceutical.
- Edit:** modify a registered pharmaceutical.
- Delete:** delete a pharmaceutical.
- Export:** export the pharmaceuticals to a CSV file (Excel).
- Stock:** show the report of stock quantities.
- StockCard:** show the history of the movement of a certain pharmaceutical (must be selected in the list first).
- Order:** show the list of pharmaceuticals that have to be ordered.
- Expiring:** show the list of pharmaceuticals that are going to expire (today, next month, within two months, within three months, or within another month to be specified).
- AMC:** show the AMC (average monthly consumption) of pharmaceuticals.
- Close:** exit from the **Pharmaceuticals Browser**.

At the bottom left of the window, there is a "Select type" combo box. Based on the value selected, the table either displays a pharmaceutical of a specific type or all pharmaceuticals if the default value of ALL is used. Just to the right of the combo box is a field that is used to search for a specific pharmaceutical by description by typing a keyword into the field.

It is possible to sort the table by any of the column headers by double-clicking on the column name. Filtered type (combo box), searched keys (the search field) and sorting are all reflected in the STOCK report.

4.1.2.1 Insert a New Pharmaceutical (New)

Press the New button in the **Pharmaceutical Browser** window to access the **New Medical** window, shown below.

To insert a new pharmaceutical, enter the following fields:

- **Type:** for example, Drugs or Chemical
- **Code:** code that uniquely identifies the pharmaceutical for fast searching.
- **Description:** the description of the pharmaceutical.
- **Pieces per Packet:** number of pieces per packet (if more than 1).
- **Critical level:** the minimum quantity required in stock.



Types can be defined by the Administrator. Check the [Settings](#) chapter for more information.

When all the data is entered, the **Buttons panel** has the following choices:

- OK: confirm and save the data.
- Cancel: close the window and return to the **Pharmaceutical Browser** window.

4.1.2.2 Modify an Existing Pharmaceutical (Edit)

After selecting the pharmaceutical to modify, press the Edit button in the **Pharmaceutical Browser** window to access the **Edit Medical** window, shown below. All the data except for the "Type" value can be modified or changed.

Edit Medical

Type:	Drugs
Code:	44
Description:	Atropine 1mg/ml 1ml Amp
Pieces per Packet:	0
Critical level:	0.0

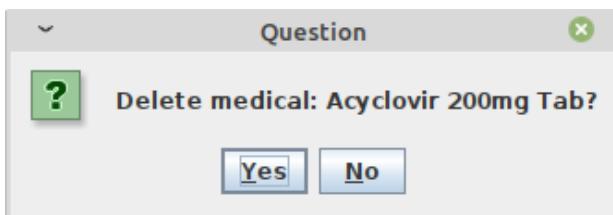
OK Cancel

When all the data is entered, the **Buttons panel** has the following choices:

- OK: confirm and save the data.
- Cancel: close the window and return to the **Pharmaceutical Browser** window.

4.1.2.3 Delete a Pharmaceutical (Delete)

To delete a pharmaceutical, highlight it in the Browser window as before. Next, press the **Delete** button and a confirmation dialog is shown:



The **Buttons panel** has the following choices:

- Yes: confirm the deletion of the pharmaceutical.
- No: close the window and return to the **Pharmaceutical Browser** window.

4.1.2.4 Export the List of Pharmaceuticals (Export)

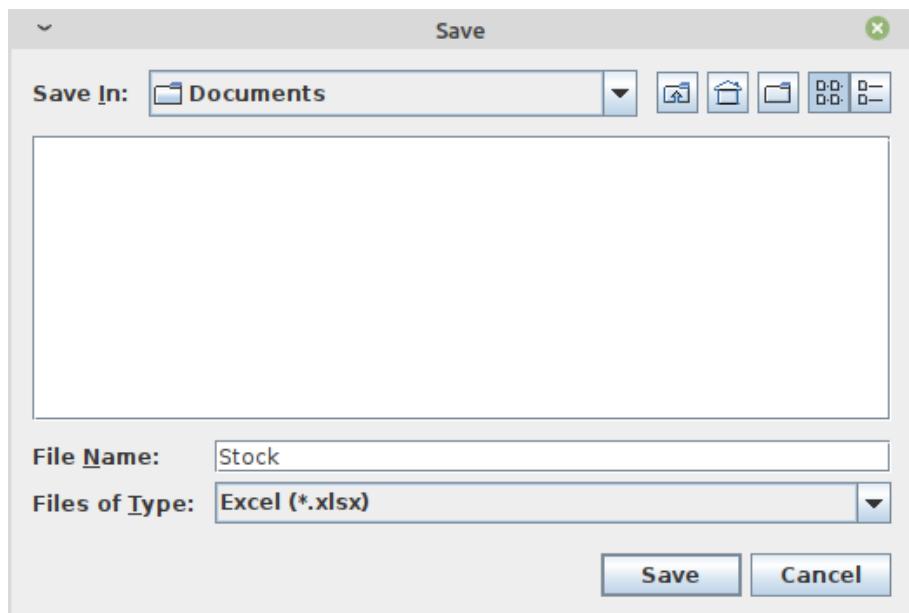
Use this function to export the list of pharmaceuticals shown in the **Pharmaceutical Browser** window that then can be imported into Excel.

Press the **Export** button in the **Pharmaceutical Browser** window to access the **Save** window, shown below. The window uses the language of the computer, regardless of the language used in Open Hospital.

This begins the exporting of the list of pharmaceuticals.

In the **Save** window:

- select the directory of the file system where the data is to be stored
- input the name for the file (Filename)



4.1.2.5 Stock Report (Stock)

Press the **Stock** button in the **Pharmaceutical Browser** window to produce the report of pharmaceuticals in the stock, grouped by *IN STOCK* and *OUT OF STOCK*.

4.1.2.6 StockCard (StockCard)

Press the **StockCard** button in the **Pharmaceutical Browser** window to show the history of the movement for a selected pharmaceutical for a specific time range. The data can either be in report format or exported to a CSV file.

4.1.2.7 Order of Pharmaceuticals (Order)

Press the **Order** button in the **Pharmaceutical Browser** window to produce the list of pharmaceuticals remaining in stock and the ones to be reordered according to their critical level.

4.1.2.8 Expiring Pharmaceuticals (Expiring)

Press the **Expiring** button in the **Pharmaceutical Browser** window to produce the list of pharmaceuticals that are going to expire, grouped by type and lot.

4.1.2.9 Average Monthly Consumption (AMC)

Press the **AMC** button in the **Pharmaceutical Browser** window to produce a report showing the average monthly consumption of pharmaceuticals.

4.2 Pharmaceutical Stock (**Pharmaceutical Stock**)

4.2.1 Main Characteristics

The Pharmaceutical Stock feature is used to store and trace every stock movement that has been made. Every movement is identified by the following data:

- date of the movement

- type of the movement, that is, if it is a charging or discharging type
- the ward to which the movement refers. This feature is needed for discharging movements only. It is important to know in which ward pharmaceuticals have been used; otherwise, this field is empty
- the quantity
- the pharmaceutical (which in turn relates to different categories: Laboratory, Surgery, Drugs or Chemical)
- the lot to which the movement is referred. Some pharmaceuticals may not have a lot related (for example, 'Gloves'), so the field can be omitted. It is recommended to store even the lot (if it exists) because every lot has its own peculiarity:
 - a name (that can be its code)
 - a preparation date
 - a due date

In this way, which movement that refers to the pharmaceuticals expiring can be found, or pharmaceuticals prepared on a specific date, or how many movements have been registered about that lot, and so on.

- the supplier of the pharmaceutical. This characteristic is needed for charging movements only. This field is empty in other cases.

4.2.2 Functions of Pharmaceuticals Stock

To access the functions of Pharmaceuticals, press **Pharmaceutical Stock** in the Pharmacy menu, shown below.



The **Stock Movement Browser** window, shown below, is opened.

Stock Movement Browser														
Selection Panel		REF. NO.	DATE	TYPE	WARD	QTY	PHARMACEUTICAL	MED TYPE	LOT	PREP DATE	DUUE DATE	ORIGIN	COST	TOTAL
Pharmaceutical	Description	302	15/03/2021 22:...	Disch...	CHILDREN WARD	20	cotton Wool 500G	Surgery	714445328...	15/03/2021	15/03/2021	JMS	2.000	40.00
	All	301	15/03/2021 22:...	Charge		100	cotton Wool 500G	Surgery	714445328...	15/03/2021	15/03/2021	JMS	2.000	200.00
Movement	Type	300	15/03/2021 22:...	Charge		20	Whitfield Ointment 200g	Drugs	730989624...	15/03/2021	15/03/2021	Enterpi...	8.000	160.00
	All	205	15/03/2021 14:...	Disch...	FEMALE WARD	20	Mosquito Net Impregnate...	Surgery	135215806...	15/03/2021	15/03/2024		30.000	600.00
		204	15/03/2021 14:...	Disch...	MALE WARD	40	Chlorpromazine 25mg/ml...	Drugs	746001220...	15/03/2021	15/03/2021		2.000	80.00
		203	15/03/2021 14:...	Charge		100	Chlorpromazine 25mg/ml...	Drugs	746001220...	15/03/2021	15/03/2021	JMS	2.000	200.00
		202	15/03/2021 14:...	Charge		1000	Gloves Surgical Sterile 6.5	Surgery	119075574...	15/03/2021	15/03/2021	JMS	0.150	150.00
		201	15/03/2021 14:...	Charge		10	X-Ray Film 43x35cm	Surgery	593753636...	15/03/2021	15/03/2021	JMS	10.000	100.00
		14	15/03/2021 01:...	Charge		10	Liquid detergent 20Ltr	Drugs	255823000...	15/03/2021	15/03/2021	JMS	0.500	5.00
		13	15/03/2021 01:...	Charge		20	Adhesive Tape 2.5cm x 5m	Surgery	367058076...	15/03/2021	15/03/2021	Enterpi...	2.000	40.00
		12	15/03/2021 01:...	Charge		300	Vitamin B Complex Tab	Drugs	252525879...	15/03/2021	15/03/2021	JMS	2.000	600.00
		11	15/03/2021 01:...	Charge		50	Mosquito Net Impregnate...	Surgery	135215806...	15/03/2021	15/03/2024	Enterpi...	30.000	1,500.00
		10	13/03/2021 01:...	Charge		100	Fluconazole 100mg Tab	Drugs	139776124...	15/03/2021	15/03/2024	JMS	15.000	1,500.00

i The User column can be enabled or disabled by changing the *SINGLEUSER* flag in the configuration file. Ask the Administrator to enable/disable this function or refer to the *Administrator's Guide*.

The following functions are available from the **Buttons panel** of the window **Stock Movement Browser**:

- **Charge:** record a new charge movement.
- **Discharge:** record a new discharge movement.
- **Export to Excel:** export pharmaceuticals stock movements.
- **StockCard:** show the history of the movement for a certain pharmaceutical (can be directly selected by the list otherwise will be requested).
- **Stock Ledger:** show the history of the movement for all pharmaceuticals within a selected date range.
- **Close:** exit the **Stock Movement Browser** window.

i There is no “Delete” button as movements cannot be deleted. If a mistake does occur (for example, the wrong quantity of a pharmaceutical is inserted in charge), then use a new opposite movement to correct the mistake. In this example, use a discharge movement to undo the unwanted change.

Furthermore, a search function (**Filter**) is available using the **Selection panel** on the left of the window.

4.2.2.1 Search Pharmaceuticals Stock Movements (**Filter**)

Selection Panel

Pharmaceutical

Description:

Type:

Movement

Type:

Ward:

Date

From:

To:

Lot Preparation Date

From:

To:

Lot Due Date

From:

To:

Keep

Using the **Stock Movement Browser** search function, the information in the window can be filtered to show:

- how many boxes of pharmaceuticals remain in the stock
- which movements have been made on a specific day
- in which ward a specific pharmaceutical has been discharged
- if there are any pharmaceuticals expired

Queries about the movements of pharmaceuticals can be done using the search criteria available on the **Selection panel** area of the **Stock Movement Browser** window (left side of the browser). The search results are shown in the **Data table** area.

The **Selection panel** is used to select a group of movements according to specific filters. The filter is set using the tools contained in the **Selection panel**.

Filters refer to three different objects: the **Pharmaceutical**, the **Movement**, and the **Lot Preparation and Lot Due Date**.

For a **Pharmaceutical**, choose either its:

- **Description**, the pharmaceutical's name

- **Type:** Laboratory, Surgery, Chemical, or Drug, etc.

To avoid conflicting filters, only one of the options is available at any one time. So, when the description combo box is active, the other one is not, and vice versa.

To quickly find a medical, simply type a keyword that is a part of the medical's name into the text field at the top of the pharmaceuticals products combo box and press the search button (🔍) that follows this text field.

For a **Movement**, choose either its:

- **Type:** specifies if it is a charge or a discharge type. If the discharge option is selected, then the ward combo box is enabled. The ward combo box allows finding any discharging movements that refer to a specific ward.
- **Date:** specifies the data range for the search, between the 'Date From' and 'Date To' values. The date tools consist of three blank areas, which (from left to right) refer to day, month and year. As a value is inserted into a blank area, moving to the next area is accomplished by using the "Tab" key on the keyboard. When the window is shown, the date range is set to the previous week by default.

Finally, for **Lot Preparation Date** and **Lot Due Date**, movements that refer to specific lots can be found by inserting:

- the *lot preparation date*: a valid time span (between 'Preparation Date From' and 'Preparation Date To')
- the *due date*; behaves similarly to the lot preparation tool and the movement date tool

Each filter can be combined with another, allowing for many possibilities.

After the filtering criteria are chosen, press the **Filter** button and the matching data is shown in the **Data table** area.

4.2.2.2 Insert Stock Charging Movement (Charge)

To insert charging movements, press **Charge** in the **Stock Movement Browser** window. The **Stock Movement** window is shown:

Stock Movement

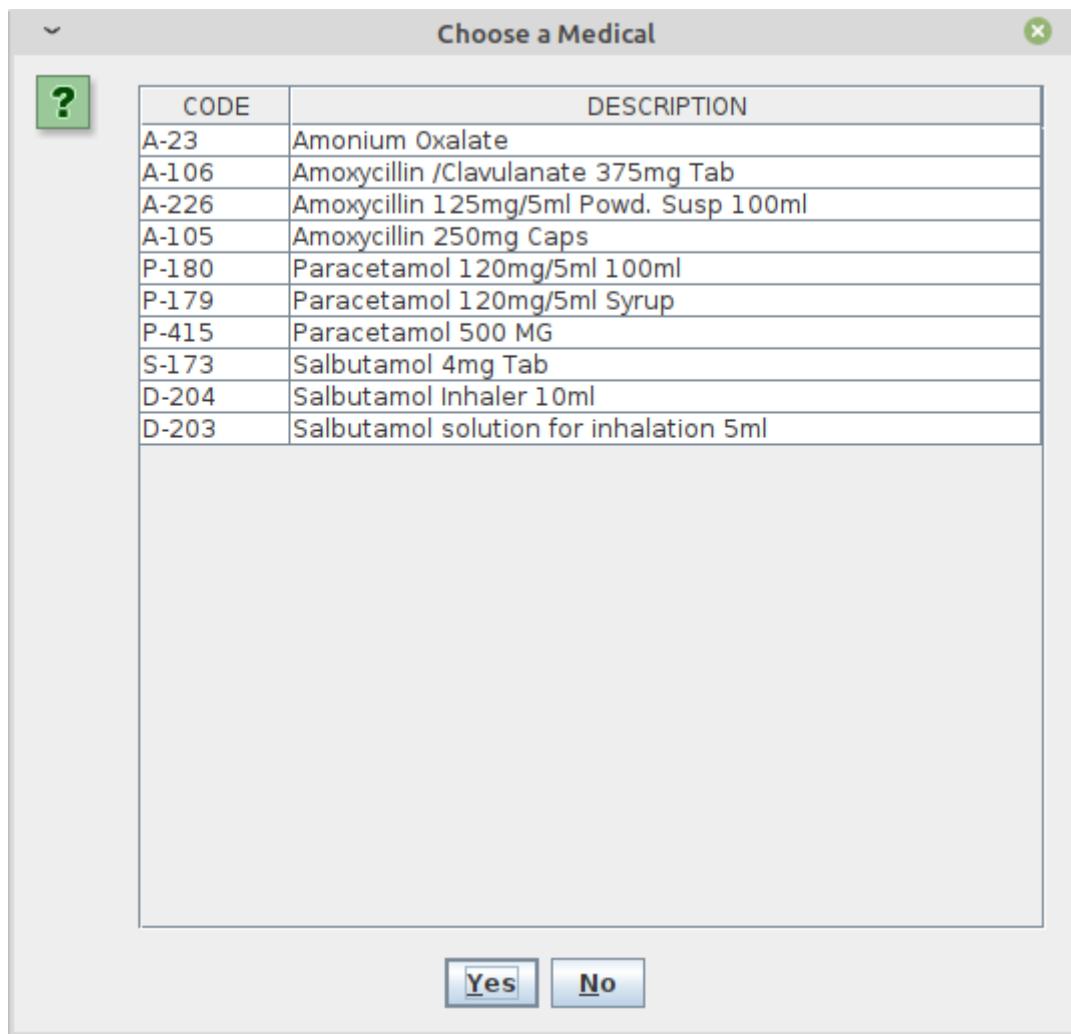
Date:	09/05/2022	<input type="button" value="15"/>	12:39	<input type="button" value="+"/>	<input type="button" value="-"/>	Reference No.:	<input type="text"/>		
Charge Type:	Charge								
Supplier:	<input type="text"/>								
<i>Type a code or a description and press ENTER</i>									
CODE	DESCRIPTION	QTY/PAC...	QTY	UNIT/PACK	TOTAL	LOT NO.	EXPIRING	COST	TOTAL
<input type="button" value="Delete"/>		<input type="button" value="Save"/>		<input type="button" value="Cancel"/>					

It is possible to perform more than one charging movement at a time. The window is composed of two areas: a **Panel** and a **Grid**.

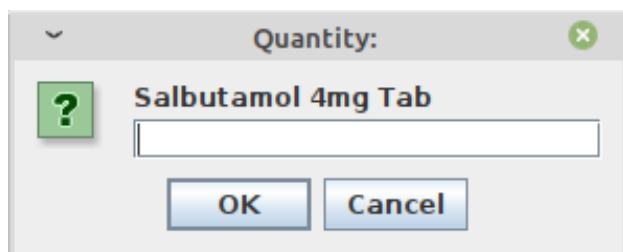
The **Panel** contains the following fields:

- **Date**: the date of the movement
- **Charge Type**: the charge type
- **Supplier**: the origin of the pharmaceutical
- **Reference No.**: the reference of the operation

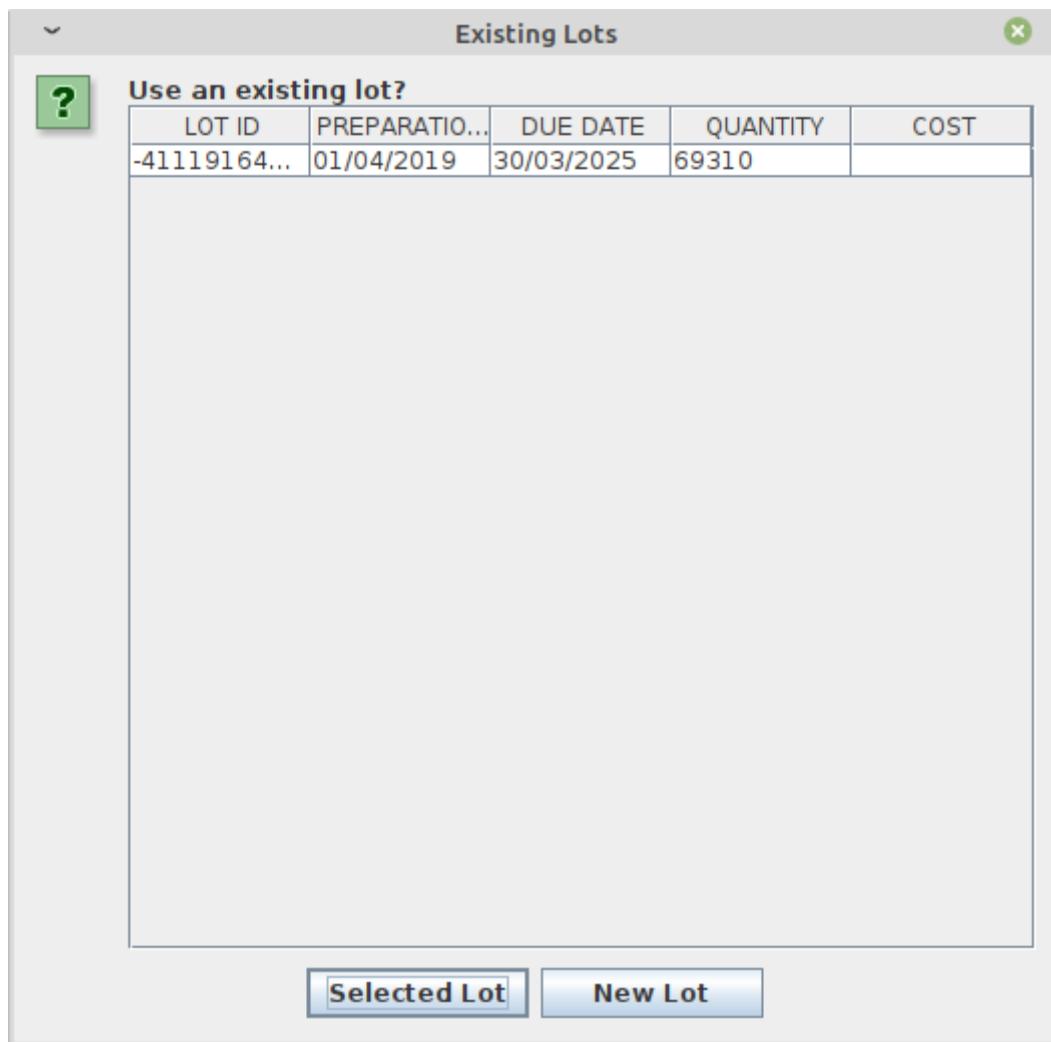
The **Grid** is filled with the pharmaceuticals involved in the charging movement. To fill the grid, use the field above the grid to select a pharmaceutical. Enter into the field the code or the description of the pharmaceutical to move, and press **ENTER**. This will open the **Choose a Medical** window.



Select the desired medical and click **Yes**. This will open a new window where the quantity of the medical is specified:

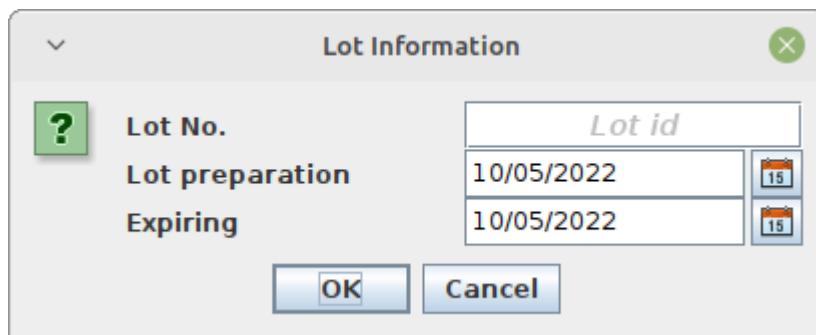


Then press **OK**. If there is an existing lot in the system, the **Existing Lot** window is shown:



If stock movement is related to this existing lot, select it and click **Selected Lot**. Otherwise, click **New Lot**; then the ***Lot Information*** window is shown with the following fields:

- **Lot No.:** the lot code
- **Lot preparation:** the lot preparation date
- **Expiring:** the lot expiring date



Enter the appropriate values and then press the **OK** button. The ***Input*** window is shown, where the unit cost is specified:



Then click **OK** to insert the medical information as a line in the grid.

Finally, click the **Save** button to save the charge movement.



The Lot definition can be set as automatic by changing the AUTOMATICLOT_IN flag in the configuration file, so every new charging movement automatically creates a new lot. Regardless of the setting, the Expiring Date must always be provided. Ask the Administrator or refer to the *Administrator's Guide*.



In order to avoid managing the cost of medicals, set the LOTWITHCOST flag to *no* in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

4.2.2.3 Insert Stock Discharging Movement (**Discharge**)

To insert discharging movements, press the **Discharge** button in the **Stock Movement Browser** window. The **Stock Movement** window is shown:

Stock Movement

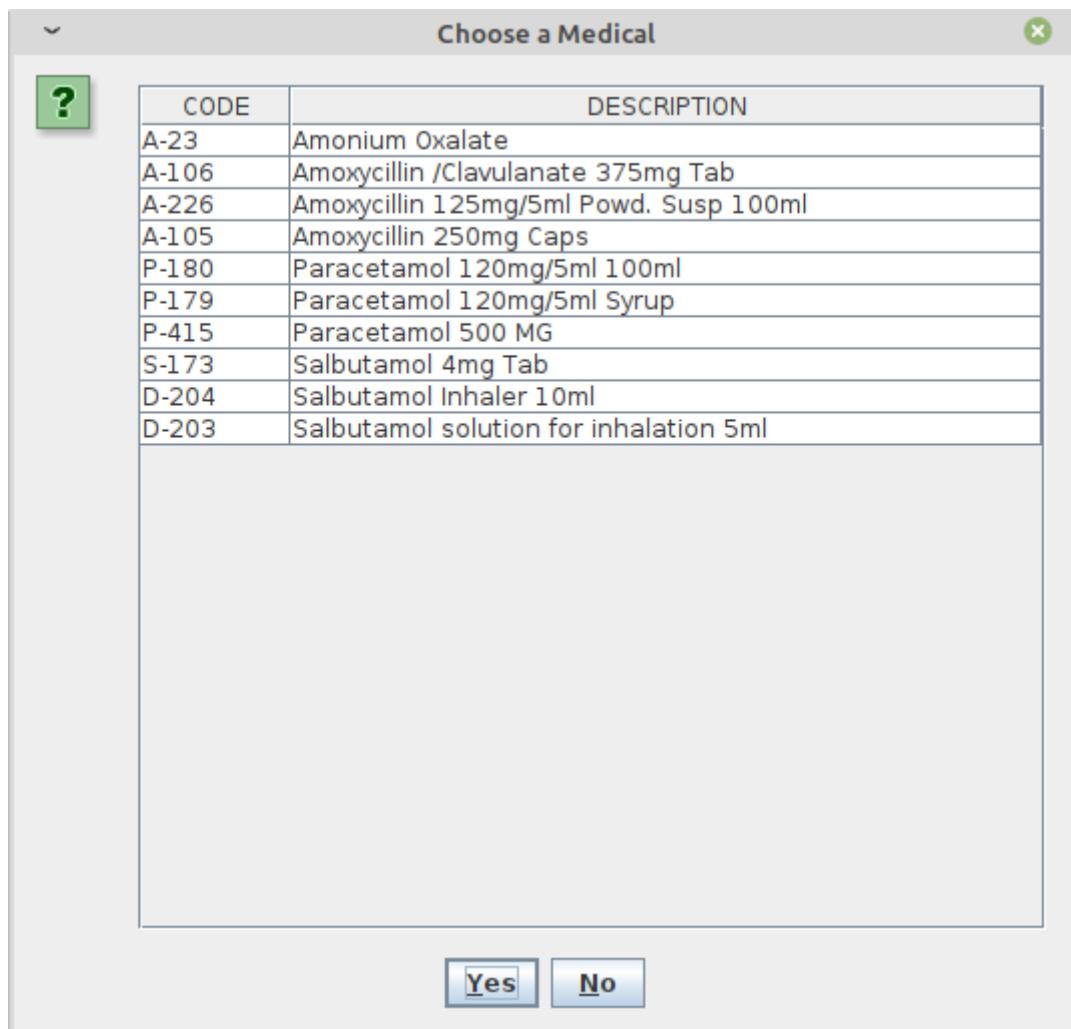
Date	09/05/2022	<input type="button" value="16"/>	15:58	<input type="button" value="+"/>	<input type="button" value="-"/>	Reference No.	<input type="text"/>	
Discharge Type	Discharge							
Destination	<input type="text"/>							
Type a code or a description and press ENTER								
CODE	DESCRIPTION	UNIT/PACK	QTY	UNIT/PACK	TOTAL	LOT NO.	EXPIRING	
<input type="button" value="Delete"/>		<input type="button" value="Save"/>		<input type="button" value="Cancel"/>				

It is possible to perform more than one discharging movement at a time. The window is composed of two areas: a **Panel** and a **Grid**.

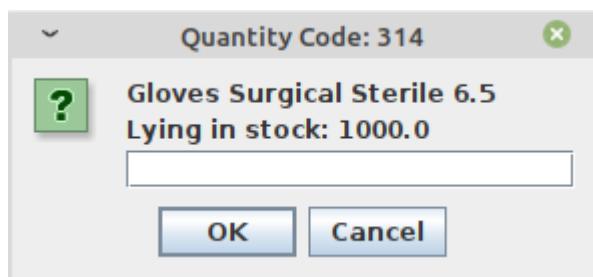
The **Panel** contains the following fields:

- **Date**: the date of the movement
- **Discharge Type**: the discharge type
- **Destination**: the ward where the discharged medical will be affected
- **Reference No.**: the reference number of the operation

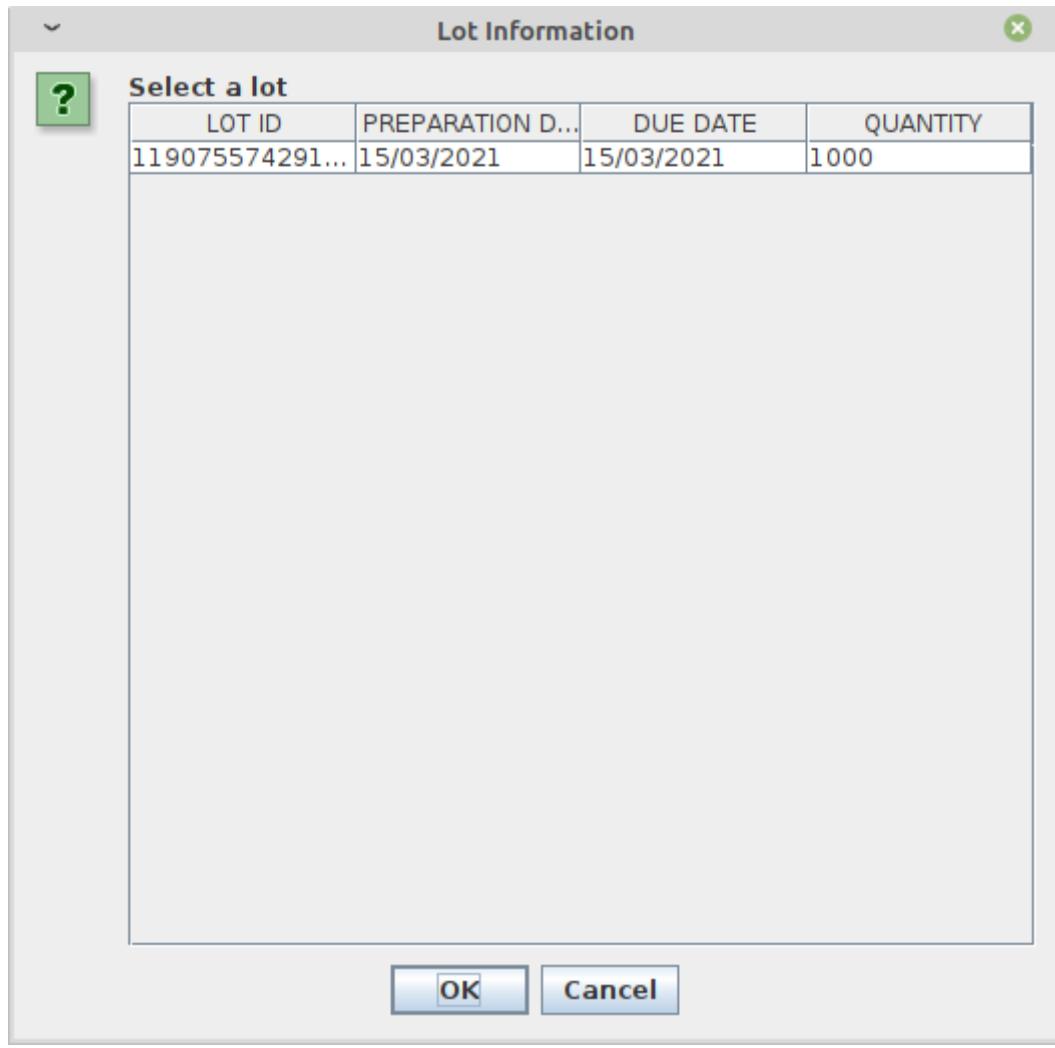
The **Grid** is filled in with pharmaceuticals involved in the discharging movement. To fill the grid, enter into the field above the grid the description of the pharmaceutical to discharge, and press **ENTER**. This opens the **Choose a Medical** window.



Select the desired medical and click **Yes**. This opens the **Quantity** window, showing the existing stock for the medical. In the input field, enter the quantity of the medical to discharge.



Then press **OK**. The **Lot Information** window is shown:



Select the existing lot and click **OK** to insert the medical discharge into the grid.

Click the **Save** button to save the discharge movement.



The Lot definition can be set as automatic by changing the flag AUTOMATICLOT_OUT in the configuration file, so every new discharging movement will automatically select a suitable lot for the operation according to the expiring date. If the first selected lot does not contain a high enough quantity to serve the discharging movement, several discharging movements may be generated. Ask the Administrator or check the *Administrator's Guide* for more information.

4.3 Pharmaceuticals Stock Ward (Pharmaceuticals Stock Ward)

4.3.1 Main Characteristics

The Pharmaceutical Stock Ward feature allows the management of the pharmacy at the ward level.

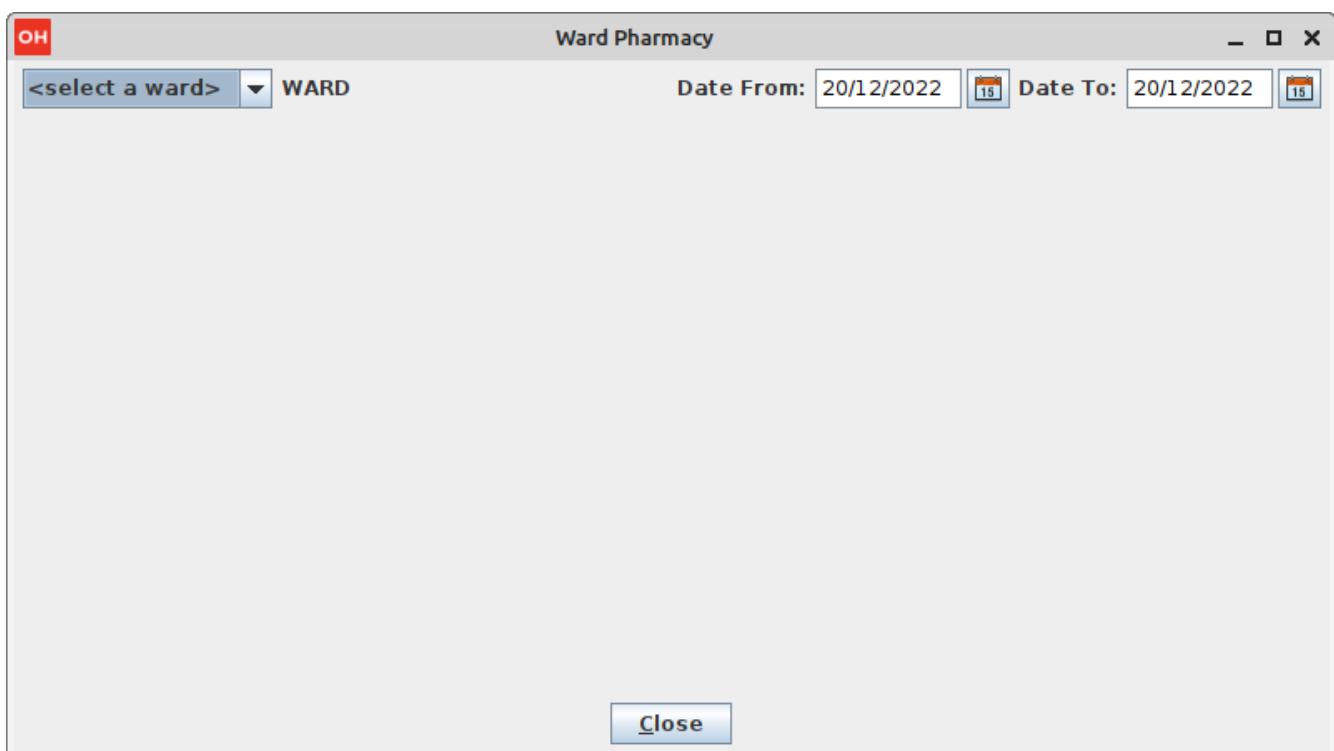
Pharmaceuticals Stock Ward functionality can be enabled or disabled by changing the *INTERNALPHARMACIES* flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

4.3.2 Functions of Pharmaceuticals Stock Ward

To access the functions of Pharmaceuticals, press **Pharmaceutical Stock Ward** on the Pharmacy menu shown below.



The window **Ward Pharmacy**, shown below, will be opened. All functions available under Pharmaceutical Stock are accessible from the **Ward Pharmacy** window by selecting one **WARD** on the top left of the window.



After the selection of the ward (FEMALE WARD in this example), the **Ward Pharmacy** window is shown, allowing for the management of the ward pharmacy of the FEMALE WARD:

Ward Pharmacy

Date From: 08/06/2021 Date To: 08/06/2022

Double click to show lot details			
MEDICAL	QUANTITY	UNITS	
Acyclovir 200mg Tab	100.0	pieces	Rectify
Amoxycillin 250mg Caps	1000.0	pieces	Rectify
Mosquito Net Impregnated ...	20.0	pieces	Rectify
X-Ray Fixer 3.3kg for 22.5 Ltr	10.0	pieces	Rectify
Paracetamol 500 MG	200.0	pieces	Rectify

Medical

All Types

All Medicals

Age

Age From: 0 Age To: 0

Sex

All Male Female

Weight

From 0 To 0

Filter Reset

Count: 0

New Rectify Report Excel StockCard Stock Ledger Close

The available functions are:

- **New**: create a new discharging movement for the patient.
- **Rectify**: rectify the quantity lying in stock (see 6.3.2.1 Rectify).
- **Report**: print the ward medical inventory report.
- **Excel**: export the data in a format to import into Excel.
- **StockCard**: show the history of the movement for a certain pharmaceutical (can be directly selected by the list otherwise will be requested).
- **Stock Ledger**: show the history of the movement for all pharmaceuticals within a selected date range.
- **Close**: exit from the **Ward Pharmacy** window.

Differently from the **Pharmaceuticals Stock** functionality, the **Pharmaceutical Stock Ward** allows only discharging movement to patients since it is an internal management of pharmaceuticals held in the ward after they have been “charged” by the main pharmacy. It is also possible that the discharging movement from ward to ward can be accomplished.

The **Ward Pharmacy** window shows a **Filter panel** on the left, a **Movements panel** in the right-center, and a **Button panel** at the bottom.

4.3.2.1 Rectify (Rectify)

It is possible to rectify the quantity held in stock in the Ward Pharmacy. This may be necessary when a drug is damaged or stolen. To do this, click the **Rectify** button to open the **Rectify** window.

Rectify

In stock

Medical:

Lot No.: Choose a Lot

Actual Quantity:

Reason:

- Select the medical. Once the medical has been selected, the quantity currently in stock is displayed.
- If lots exist for the drug, click **Choose a Lot**; otherwise, click on **New Lot** (new lot creation).
- Modify the **Actual Quantity**.
- Enter the reason for the rectification.

Rectify

In stock: 120.0

Medical: Acetazolamide 250mg Tab

Lot No.: AUTO_1_98 Choose a Lot New Lot

Actual Quantity: 118 In lot: 120.0

Reason: Reducing quantity to 118 (scrapping 2 tablets)

Click **OK** to save the rectification or **Cancel** to abort the change.

4.3.2.2 Search Ward Pharmacy Movements (Filter)

The screenshot shows a 'Medical' filter panel. At the top is a dropdown menu set to 'All Medicals'. Below it is another dropdown for 'All Types' which is also set to 'All Medicals'. There is a search bar with a magnifying glass icon. Under 'Age', there are two input fields 'Age From: 0' and 'Age To: 0'. Below 'Age' is a section for 'Sex' with three radio buttons: 'All' (selected), 'Male', and 'Female'. Under 'Weight', there are two input fields 'From 0' and 'To 0'. At the bottom are two buttons: 'Filter' and 'Reset'. Below these buttons is a text field showing 'Count: 0'.

The **Filter panel** allows the filtering of registered movements by:

- Medical
- Age
- Sex
- Weight

The counter at the bottom automatically displays the number of movements that match the filtering criteria after clicking the **Filter** button.

The **Reset** button resets all the values in the **Filter panel** back to their default values as shown in the figure above.

4.3.2.3 The Movements Panel

The **Movements panel** is made up of three tabs:

- **Outcomes:** shows all the movements registered between the dates in the **From** and **To** fields at the top of the window. By default, **From** and **To** dates are set to the current date. Every movement is identified by the following fields:
 - **Date:** the date of the movement.
 - **Patient:** the patient the movement is related to, their age, sex, and weight (ND if the weight has not been defined at the moment of registration).
 - **Medical:** the drug subject of the movement.
 - **Quantity:** the quantity subject of the movement.
- **Incomings:** shows all incomings from the main pharmacy; it is to say, all discharging movements registered in the **Pharmaceutical Stock** window related to the selected ward.
- **Drugs:** the number of drugs remaining in the selected ward as a result of all incoming minus all

the outgoings.

4.3.2.4 Inserting a New Ward Pharmacy Movement (New)

To insert ward pharmacy movements, press the New button in the **Ward Pharmacy** window. The **New / Edit** window is shown:

The screenshot shows the 'New / Edit' dialog box. At the top, there are three radio button options: 'Patient' (selected), 'Internal use' (with a text input field containing 'INTERNAL USE'), and 'Another Ward' (with a dropdown menu showing 'MATERNITY WARD'). Below this is a search bar with the text 'parac' and a magnifying glass icon, followed by a dropdown menu showing 'Paracetamol 500 MG'. To the right of the search bar is a green plus sign icon labeled 'Medical'. A table below the search bar lists a single item: 'Paracetamol 500 MG' under 'MEDICAL', '10.0' under 'QUANTITY', and 'AUTO...' under 'LOT NO.'. At the bottom of the dialog are 'OK' and 'Cancel' buttons, and a 'Remove Item' button with a red cross icon.

As mentioned previously, only discharging movements are allowed in this functionality. So, the information required is the following:

- **Patient or Internal use or Another Ward:** a registered patient can be selected by clicking on the **Pick Patient** button so the movement is associated with his/her ID or select **Internal use** and type a description to specify that the movement is not related to a patient. Selecting **Another Ward** allows for choosing the destination ward from the list provided.
- **Medical:** first select the drug to give to that patient (the only ones that are in the ward as a

result of a previous discharging movement in the **Pharmaceutical Stock Browser**) from the dropdown list and then press the **Medical** button. It is possible to specify the quantity (multiple and half-piece are allowed) in the window shown:



If *AUTOMATICLOTWARD_TOWARD* has been enabled, the user will be requested to select a lot (similar to [Insert Stock Discharging Movement](#)).



The lot selection can be enabled or disabled (set as automatic) by changing the flag *AUTOMATICLOTWARD_TOWARD* in the configuration file, so every new discharging movement will automatically select a suitable lot for the operation according to the expiring date (FEFO). If the first selected lot does not contain enough quantity to serve the discharging movement, several discharging movements may be generated if the quantity laying in other lots can satisfy the request. Ask the Administrator or check the *Administrator's Guide* for more information.

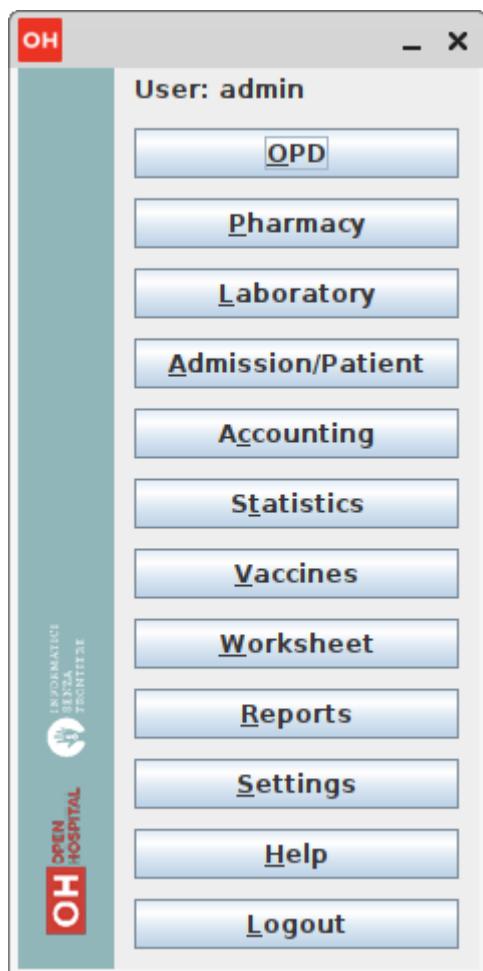
Before pressing the **OK** button, insert as many Medicals as needed; it will show a corresponding number of movements in the **Outcomes** tab of the **Movement panel** in the **Ward Pharmacy** window. These movements are also visible in the **Incomings** tab of the **Movement panel** in the **Ward Pharmacy** window of the receiving ward, in case of discharging to another ward.

5 Laboratory (Laboratory)

5.1 Main Characteristics

The Laboratory features are used to manage the laboratory exams.

Press the **Laboratory** button or “Alt + L”.



It is possible to create, modify or delete exams.

- Insert a new laboratory exam
- Delete (or edit) an existing exam
- Select some exams with the Search button (select the exam's name and the range of dates for the exam)

5.2 Functions of Laboratory

To access the Laboratory's functions, press **Laboratory** on the main menu of Open Hospital. The **Laboratory Browser** window is shown:

All functions available under **Laboratory** are accessible from the **Laboratory Browser** window, shown below. By default, the system shows all the laboratory exams recorded in the last week.

Laboratory Browser				
Select an exam	DATE	PATIENT	EXAM	RESULT
All	15/03/2021 19:41	Jeffreys Risa	3.1 Blood Slide (Malaria)	NEGATIVE
	15/03/2021 19:41	Jeffreys Risa	3.2 Blood Slide (OTHERS, E.G. TRIUPHANOSOMIAS, MICRIFI...)	NEGATIVE
Date From:	05/09/2020	Depuy Darrell	7.3.3 GOT	<= 50 (NORMAL)
Date To:	12/09/2022	Depuy Darrell	7.3.4 ALT/GPT	> 50
	15/03/2021 14:35	Curtis Courson	8.1 OCCULT BLOOD	NEGATIVE
	15/03/2021 14:35	Nieves Julietta	3.1 Blood Slide (Malaria)	NEGATIVE
	15/03/2021 14:35	Nieves Julietta	3.21 Trypanosomiasis	NEGATIVE
	15/03/2021 14:35	Nieves Julietta	3.6 CSF WET PREP	NEGATIVE
	15/03/2021 12:32	Sara Hucklington	5.4 LEISMANIA	NEGATIVE
	15/03/2021 12:32	Sara Hucklington	7.4.1 CREATININA	1.4 - 2.5
	15/03/2021 12:16	Eddings Carmine	1.5 ESR	NORMAL
	13/03/2021 22:47	Geremia Dickinson	2.1 Grouping	AB RH+
	13/03/2021 22:47	Geremia Dickinson	7.4.1 CREATININA	< 1.4 (NORMAL)
	13/03/2021 01:17	Kenty Willis	3.1 Blood Slide (Malaria)	NEGATIVE
	13/03/2021 01:17	Kenty Willis	4.6 OTHER C&S	NEGATIVE
	13/03/2021 00:54	Bumpers Ferdinand	2.2 Comb's Test	NEGATIVE
	13/03/2021 00:54	Bumpers Ferdinand	3.1 Blood Slide (Malaria)	NEGATIVE
	13/03/2021 00:50	Mary Garrington	URINALYSIS	Multiple results
	23/11/2020 16:02	Quinlan Coors	7.1 PROTEIN	NEGATIVE
	23/11/2020 16:02	Quinlan Coors	7.2 SUGAR	NORMAL
	21/11/2020 22:40	Robert Kittelson	1.4 Film Comment	0
	21/11/2020 22:40	Robert Kittelson	1.6 Sickling Test	NEGATIVE
	21/11/2020 22:40	Robert Kittelson	4.1 CULTURE AND SENSITIVITY (C&S) FOR HAEMOPHILUS IN...	POSITIVE
	21/11/2020 22:40	Janusz Lavera	1.4 Film Comment	0
	21/11/2020 22:08	Vincent Arata	4.6 OTHER C&S	NEGATIVE
	21/11/2020 22:08	Vincent Arata	5.4 LEISMANIA	NEGATIVE
	21/11/2020 22:08	Vincent Arata	6.4 HEPATITIS	NEGATIVE
	21/11/2020 02:23	Genna Susterlind	6.4 HEPATITIS	NEGATIVE
	21/11/2020 02:23	Genna Susterlind	6.5 OTHERS E.G BRUCELLA, RHEUMATOID FACTOR, WEIL FE...	NEGATIVE
	21/11/2020 01:52	Jestine Dacruz	5.5 ZN	NEGATIVE
	21/11/2020 01:47	Stanton Durrah	7.4.1 CREATININA	< 1.4 (NORMAL)
	21/11/2020 01:47	Stanton Durrah	7.4.2 UREA	10-55 (NORMAL)
	21/11/2020 01:41	Shannan Matias	6.2 TPHA	POSITIVE
	21/11/2020 01:41	Eddy Rambin	7.4.1 CREATININA	NEGATIVE
	21/11/2020 01:41	Iasmine Gwynn	3.1 Blood Slide (Malaria)	+++

Data that identify laboratory exams are the following:

- **Date:** indicates the date and time when the exam was entered
- **Exam:** the description of the exam
- **Result:** the result of the exam

To access the other functions of the laboratory in the **Buttons panel**, the following choices are available:

- **New:** enter a new laboratory exam.
- **Edit:** modify an existing laboratory exam.
- **Delete:** delete an existing laboratory exam.
- **Print Table:** print the list of laboratory exams shown in the table.
- **Print Label:** print the labels of the samples for laboratory exams.
- **Close:** close the window and return to the main menu.

Furthermore, a search function (**Search**) is available using the **Selection panel** on the left of the window.

5.2.1 Search Laboratory Exams (Search)

The search function allows for selecting and showing laboratory exams on the **Data table** of the **Laboratory Browser** window.

In the example below, all types of exams executed on the date 21.11.2020 are shown in the **Data table**.

Laboratory Browser				
Select an exam	DATE	PATIENT	EXAM	RESULT
All	21/11/2020 22:40	Robert Kittelson	1.4 Film Comment	0
	21/11/2020 22:40	Robert Kittelson	1.6 Sickling Test	NEGATIVE
Date From:	21/11/2020		4.1 CULTURE AND SENSITIVITY (C&S) FOR HAEMOPHILUS INF.	POSITIVE
Date To:	21/11/2020		1.4 Film Comment	0
			4.6 OTHER C&S	NEGATIVE
			5.4 LEISHMANIA	NEGATIVE
			6.4 HEPATITIS	NEGATIVE
			6.4 HEPATITIS	NEGATIVE
			6.5 OTHERS E.G BRUCELLA, RHEUMATOID FACTOR, WEIL FELIX	NEGATIVE
			5.5 ZN	NEGATIVE
			7.4.1 CREATININA	< 1.4 (NORMAL)
			7.4.2 UREA	10-55 (NORMAL)

Data about exams can be selected by choosing specific fields among the following:

- **Select an exam:** Valid values are:
 - All: exams of all types are shown
 - Pick a single exam from the list; only exams of the selected type are shown
- **Date:** “Date From” and “Date To” only shows the exams executed within the requested time period

After the selection press, the **Search** button; the system shows in the table results of the search applying the criteria requested.

5.2.2 Create a New Laboratory Exam ([New](#))

Press the **New** button in the **Laboratory Browser** window. The **New Laboratory Exam** window is shown:

New Laboratory Exam

Date	20/06/2022	<input type="button" value="15"/>	6:40	<input type="button" value="+"/>	<input type="button" value="-"/>	Material	<input type="button" value="▼"/>
Exam	Select an exam						
Patient	<input type="checkbox"/> In	Select a patient					
Name	<input type="text"/>		Age	<input type="text"/>	Sex (M/F)	<input type="text"/>	<input type="button" value="▼"/>
Note	<input type="text"/>						
Result							
<input type="button" value="OK"/> <input type="button" value="Print"/> <input type="button" value="Cancel"/>							

To record the visit, enter the following fields:

- **Date:** the date of the exam; the application defaults to the current date.
- **Material:** choose from the available values the material used in the exam.
- **Exam:** choose the exam.
- **Patient In:** it activates itself if the selected patient is currently admitted; it is possible to change it if needed.
- **Select a patient:** select the patient that is examined. The field is not mandatory as the patient's data be input into the following fields.
- **Name:** the first and last name of the patient (*automatically filled if a patient is selected*).
- **Age:** the age of the patient (range 0-120) (*automatically filled if a patient is selected*).
- **Sex:** the value *M* for male or the value *F* for female (*automatically filled if a patient is selected*).
- **Note:** a free-form area for notes and/or description.
- **Result:** based on the exam chosen the panel is populated with all available results for selection.

5.2.2.1 Results

In Open Hospital, there are two kinds of possible results for each exam:

- **Single Result:** selection of a single result from a list (Procedure 1)
- **Multiple Results:** selection of many results from a list of positive/negative values (Procedure 2)
- Or manually inputting the precise result (Procedure 3)

The figure consists of three vertically stacked screenshots of the Open Hospital software interface.

- Screenshot 1 (Left): New Laboratory Exam**
 - Date: 30/06/2022, 16:48
 - Exam: 1.1 HB
 - Patient: Select a patient
 - Note: [empty]
 - Result dropdown menu:
 - >=12 (NORMAL)
 - >=12 (NORMAL) (selected)
 - 6 - 12
 - < 6
- Screenshot 2 (Top Right): Edit Laboratory Exam**
 - Date: 26/10/2022, 8:27
 - Exam: URINALYSIS
 - P. Code: 525, Patient: Mary Garrington
 - Patient's Data:
 - Name: Mary Garrington, Age: 0, Sex (M/F): F
 - Note: [empty]
 - Result section:

BILIRUBIN	<input checked="" type="radio"/> P <input type="radio"/> N
HCG	<input type="radio"/> P <input checked="" type="radio"/> N
PROTEIN	<input type="radio"/> P <input checked="" type="radio"/> N
SEDIMENTS	<input type="radio"/> P <input checked="" type="radio"/> N
SUGAR	<input checked="" type="radio"/> P <input type="radio"/> N
UROBILINOGEN	<input type="radio"/> P <input checked="" type="radio"/> N
- Screenshot 3 (Bottom Left): New Laboratory Exam**
 - Date: 29/06/2022, 16:53
 - Exam: 1.1 HB (Procedure 3)
 - Patient: Select a patient
 - Note: [empty]
 - Result text input field: 11.2 gal



Exams, Exam Type, and Results can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

When the data is specified, the **Buttons panel** provides the following choices:

- **OK:** confirm and record the data.
- **Print:** print the result.

- Cancel: close the window and return to the *Laboratory Browser* window.

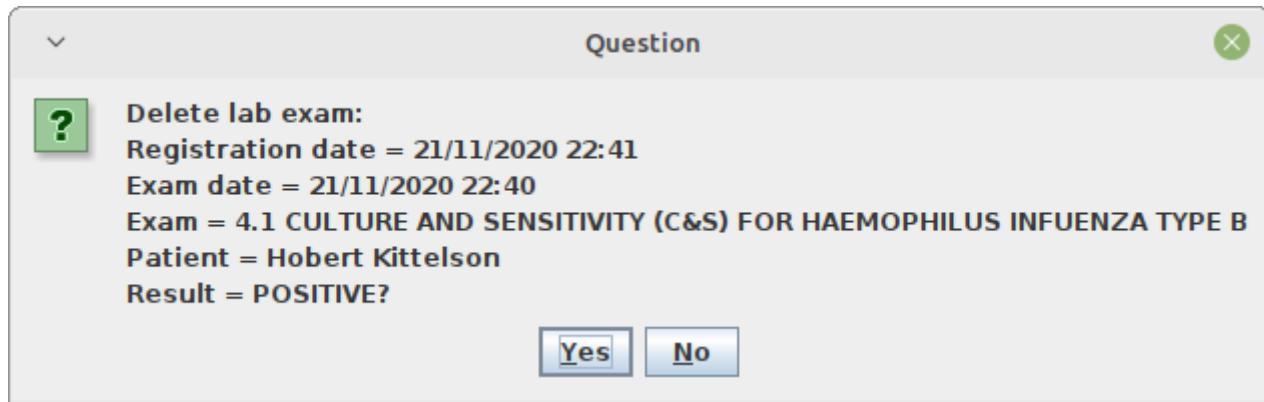
5.2.3 Modify a Laboratory Exam (Edit)

To modify an exam, highlight the exam in the *Laboratory Browser* window. Once the exam has been highlighted, press the Edit button to enter the *Edit Laboratory Exam* window, shown below. Now the record is available for changes. This function allows for editing all the data for the exam including setting the result of the exam.

The screenshot shows the 'Edit Laboratory Exam' dialog box. The window title is 'Edit Laboratory Exam'. Inside, there are several input fields and a dropdown menu for results. The 'Date' field shows '21/11/2020' with a calendar icon. The 'Exam' field shows '1.1 HB'. The 'Patient' field shows 'Hutcheson Jere' with a checked 'In' checkbox. The 'Name' field shows 'Jere Hutcheson', 'Age' is '40', and 'Sex (M/F)' is 'F'. The 'Note' field is empty. The 'Result' section has a dropdown menu with four options: '6 - 12', '6 - 12' (highlighted in blue), '< 6', and '>=12 (NORMAL)'. At the bottom are three buttons: 'OK', 'Print', and 'Cancel'.

5.2.4 Delete Laboratory Exam (Delete)

To delete an exam, highlight the exam in the *Laboratory Browser* window. Once the exam has been highlighted, press the Delete button, and a confirmation window is shown:



5.3 Laboratory Extended

The Laboratory functionality can be extended by changing the *LABEXTENDED* flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

5.3.1 Extended Laboratory Browsing

If the extended Laboratory functionality is enabled, the Laboratory Browser window shows a new column containing the name of the patient.

Laboratory Browser					
Select an exam	DATE	PATIENT	EXAM	RESULT	
All	15/03/2021 19:41:32	Jeffreys Risa	3.1 Blood Slide (Malaria)	NEGATIVE	
	15/03/2021 19:41:32	Jeffreys Risa	3.2 Blood Slide (OTHERS, E.G. TRIUPHANOSOMIAS, MICRIFI...	NEGATIVE	
	15/03/2021 14:35:46	Depuy Darrell	7.3.3 GOT	<= 50 (NORMAL)	
	15/03/2021 14:35:46	Depuy Darrell	7.3.4 ALT/GPT	> 50	
Date From:	20/04/2000		8.1 OCCULT BLOOD	NEGATIVE	
Date To:	27/04/2022		3.1 Blood Slide (Malaria)	NEGATIVE	
	15/03/2021 14:35:09	Nieves Julietta	3.21 Trypanosomiasis	NEGATIVE	
	15/03/2021 14:35:09	Nieves Julietta	3.6 CSF WET PREP	NEGATIVE	
	15/03/2021 12:32:17	Sara Huckleton	5.4 LEISMANIA	NEGATIVE	
	15/03/2021 12:32:17	Sara Huckleton	7.4.1 CREATININA	1.4 - 2.5	
	15/03/2021 12:16:50	Eddings Carmine	1.5 ESR	NORMAL	
	13/03/2021 22:47:53	Geremia Dickinson	2.1 Grouping	AB RH+	
	13/03/2021 22:47:53	Geremia Dickinson	7.4.1 CREATININA	< 1.4 (NORMAL)	
	13/03/2021 01:17:47	Kenty Willis	3.1 Blood Slide (Malaria)	NEGATIVE	
	13/03/2021 01:17:47	Kenty Willis	4.6 OTHER C&S	NEGATIVE	
	13/03/2021 00:54:26	Bumpers Ferdinand	2.2 Comb's Test	NEGATIVE	
	13/03/2021 00:54:26	Bumpers Ferdinand	3.1 Blood Slide (Malaria)	NEGATIVE	
	13/03/2021 00:50:42	Mary Garrington	URINALYSIS	Multiple results	
	23/11/2020 16:02:33	Quinlan Coors	7.1 PROTEIN	NEGATIVE	
	23/11/2020 16:02:33	Quinlan Coors	7.2 SUGAR	NORMAL	
	21/11/2020 22:40:40	Robert Kittelson	1.4 Film Comment	0	
	21/11/2020 22:40:40	Robert Kittelson	1.6 Sickling Test	NEGATIVE	
	21/11/2020 22:40:40	Robert Kittelson	4.1 CULTURE AND SENSITIVITY (C&S) FOR HAEMOPHILUS I...	POSITIVE	
	21/11/2020 22:40:18	Janusz Laveria	1.4 Film Comment	0	
	21/11/2020 22:08:31	Vincent Arata	4.6 OTHER C&S	NEGATIVE	
	21/11/2020 22:08:31	Vincent Arata	5.4 LEISMANIA	NEGATIVE	
	21/11/2020 22:08:31	Vincent Arata	6.4 HEPATITIS	NEGATIVE	
	21/11/2020 02:23:20	Genna Susterlind	6.4 HEPATITIS	NEGATIVE	
	21/11/2020 02:23:20	Genna Susterlind	6.5 OTHERS E.G BRUCELLA, RHEUMATOID FACTOR, WEIL FE...	NEGATIVE	
	21/11/2020 01:52:02	Jestine Dacruz	5.5 ZN	NEGATIVE	
	21/11/2020 01:47:45	Stanton Durrah	7.4.1 CREATININA	< 1.4 (NORMAL)	
	21/11/2020 01:47:45	Stanton Durrah	7.4.2 UREA	10-55 (NORMAL)	
	21/11/2020 01:41:32	Shannan Matias	6.2 TPHA	POSITIVE	
	21/11/2020 01:41:18	Eddy Rambin	7.4.1 CREATININA	NEGATIVE	
	21/11/2020 01:41:08	Iasmine Gwin	3.1 Blood Slide (Malaria)	++	

The presence of the patient name column is required by this mode.

5.3.2 New Laboratory Exam (New)

The **New Laboratory Exam** window is now strictly related to the patient, that is to say, the exam must be assigned to a patient previously registered in the system.

Before one closes the window with the exam result, a patient must be selected from the list; the fields in the **Patient's Data** panel provide some simple patient details.

A search field can be used to find a patient by typing part of his/her name or his/her Open Hospital code (which is specified in the Patient window, see *Patient Extended*).

The **New Laboratory Exam** window is shown:

The screenshot shows the 'New Laboratory Exam' dialog box. At the top, there are fields for 'Date' (20/06/2022), 'Exam' (dropdown menu 'Select an exam'), and 'Material' (dropdown menu). Below these are fields for 'P. Code' (dropdown menu 'Select a patient') and 'In' (checkbox). The 'Patient's Data' section contains fields for 'Name', 'Age', and 'Sex (M/F)'. A large 'Note' text area is also present. The 'Result' section is currently empty. At the bottom of the dialog are three buttons: 'OK', 'Print', and 'Cancel'.

The **Patient's Data** panel cannot be modified except for the **Note** field which only shows the information related to the selected patient.

5.3.3 Laboratory Multiple Insert

The *New Laboratory* functionality can be extended by changing the *LABMULTIPLEINSERT* flag in the configuration file. The flag *LABEXTENDED* has to be enabled too. Refer to the *Administration's Guide*.

The New Laboratory Multiple allows multiple exam insertions for each patient, avoiding repeating the new laboratory exam procedure (New) for every exam for the same patient.

5.3.3.1 New Patient Exams (New)

Press the New button in the *Laboratory Browser* window: The *New Patient Exams* window is shown (including sample exam data):

New Patient Exams

Date	23/07/2021	<input type="button" value="15"/>	16:11	<input type="button" value="+"/>
Patient	<input type="text"/>	<input type="button" value="Find Patient"/>	<input type="button" value="Remove"/>	<input checked="" type="radio"/> OPD <input type="radio"/> IP
EXAM		RESULT		
1.1 HB		>=12 (NORMAL)		
1.2 WBC Count		4000 - 7000 (NORMAL)		
URINALYSIS		Multiple results		

Exam

Material

Result

- BILIRUBIN
- HCG
- PROTEIN
- SEDIMENTS
- SUGAR
- UROBILINOGEN

Note

To record the visit, enter the following fields:

- **Date:** the date of the exam, the application defaults to the current date.
- **Patient:** select a patient by pressing the **Find Patient** button.
- **OPD/IPD:** the window automatically checks if the patient is admitted or not in the hospital; the value can be changed if needed.
- **Exam:** choose the exam. The first window asks for the material. Then a second window asks for the exam. Finally, a third window asks for the result if the exam allows only a single result; otherwise, the list of multiple results is shown in the right panel, together with the chosen material.
- **Remove:** remove a selected exam.
- **Note:** additional exam reporting (different for each exam).



At any time, before pressing **OK**, modifications can be made to every exam by clicking on it in the list and changing material, results, or notes in the related

panels.

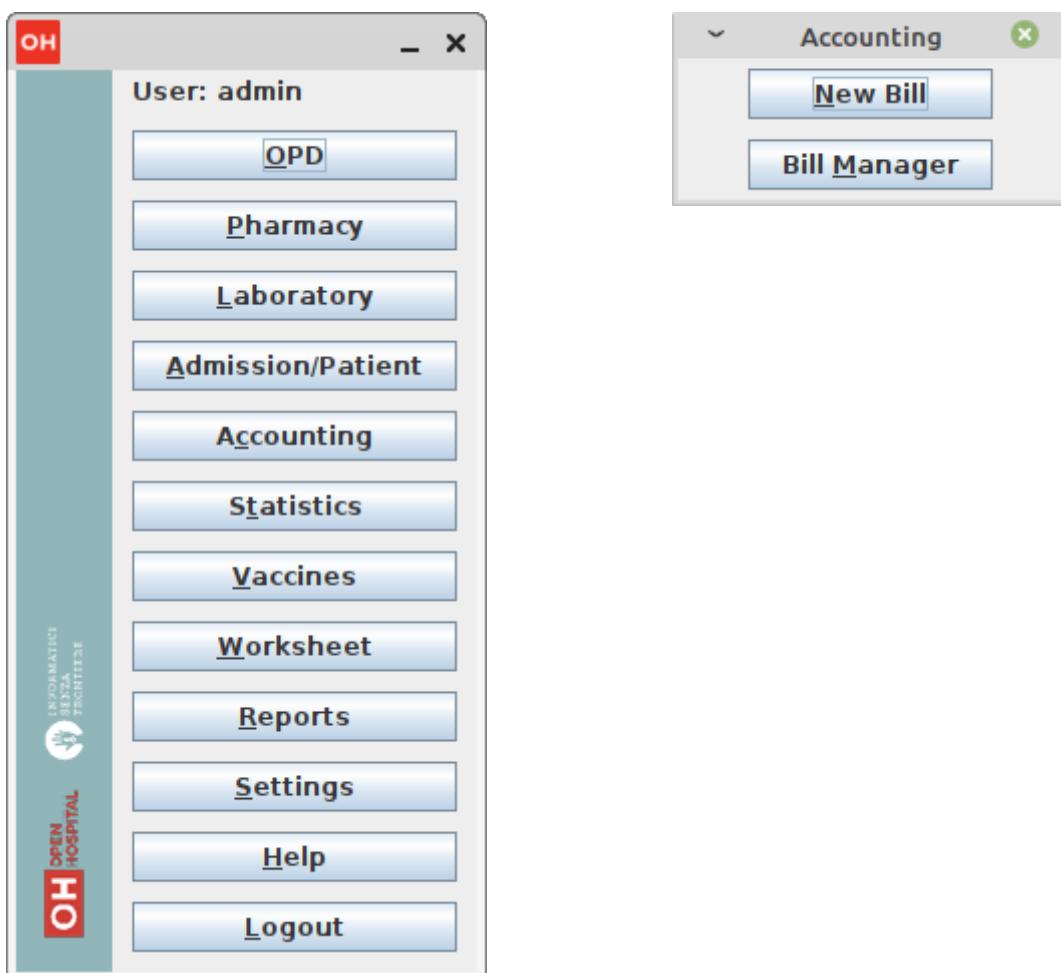
6 Accounting (Accounting)

6.1 Main Characteristics

Accounting is the function that is used to manage the billing process where bills for pharmaceuticals, operations, exams, and other costs of a patient are created and managed. Currently, the billing process is not linked with other functions of **Open Hospital** and therefore the application does not generate the accompanying billing information based on the therapy followed by the patient: the billing information must be input for all items manually.

In addition, the accounting function supports the management of bill payments (total or partial) and the generation of reports.

Submenu: Press the Accounting button or “Alt + C” to open the Accounting submenu



6.2 Functions of Accounting

All functions available under **Accounting** are accessible from the **Patients Bills Management** window, shown below. To access the **Patient Bills Management** window, press **Bill Manager** on the **Accounting** menu.

By default, the window shows in the **Data table** all the bills for today (current day).

Patient Bills Management

USER	ID	DATE	PAT. ID	PATIENT	AMOUNT	LAST PAYMENT	STATUS	BALANCE	IN/OUT
admin	47	09/11/2021 18:29	540	Redy Villen	80.0	09/11/2021 18:30	C	0.0	
admin	46	09/11/2021 17:44	539	Philomena Redondo	102.0	09/11/2021 17:44	O	72.0	
admin	45	09/11/2021 17:22	537	Wally Simpsons	60.0	09/11/2021 17:22	C	0.0	
admin	44	09/11/2021 15:40	535	Kenny Flanagan	151.0	09/11/2021 15:41	C	0.0	
admin	43	09/11/2021 15:39	534	Mirta Veluma	80.0	09/11/2021 15:39	O	30.0	

Paid Today: UGX 0 Not Paid: UGX
 Paid Period: UGX 371 Not Paid: UGX
 admin Today: 0 admin Period: 371

For each bill, the following data are shown in the **Data table**:

- **USER**: the user who initially created or later updated the bill
- **ID**: the number of the bill (created automatically by the application).
- **DATE**: the date and time of the bill creation.
- **PAT ID**: the patient's ID (created automatically by the application at the registration time).
- **PATIENT**: the patient's name.
- **AMOUNT**: the total amount of the bill.
- **LAST PAYMENT**: the date and time of the last payment.
- **STATUS**: the status of the bill; values are: "O" (open) if not fully paid; "C" (closed) if fully paid.
- **BALANCE**: the bill amount which has not yet been paid.
- **IN/OUT**: the bill refers to an admission or OPD

The following filter options are available at the **Upper panel** of the **Patient Bills Management** window:

- **[user]** selector (e.g. 'admin'): users (cashiers) filter
- **Today**: shows in the **Data table** only the bills for the current day.
- **Date From** and **Date To**: dates selectors used to select a period
- **[Month]** selector (e.g. 'December'): to quickly select one month in **Date From** and **Date To** field
- **[year]** selector (e.g. '2022'): to quickly select a year in **Date From** and **Date To** field
- **[Patient]** selector: to filter bills for a patient within the specified **Date From** and **Date To** period

The following functions are accessible from the **Buttons panel** of the **Patient Bills Management** window:

- **New Bill:** insert a new bill.
- **Edit Bill:** modify a stored bill if its status is “O” (Open).
- **Delete Bill:** delete a stored bill (does not remove the bill but changes the status to “D”).
- **Receipt:** print a bill receipt.
- **Report:** print a variety of reports.
- **Close:** exit from ***Patients Bills Management*** and return to the main menu

Furthermore, the ***Patient Bills Management*** window shows an **Incomes Table** with the following information:

- **First Row:** the **PAID** and **UNPAID** amounts (in the specified currency) for **Today**
- **Second Row:** the **PAID** and **UNPAID** amounts (in the specified currency) for the visualized **Period**
- **Third Row:** the amount **PAID** for **Today** and within the selected **Period** for the selected **User**



The **USER** column, The [User] selector and the **Third Row** are shown only in multi-user mode (see [\[function-accounting\]](#))

6.2.1 Insert a New Bill (**New Bill**)

The **New Bill** function is used to generate a new bill for a patient. Press the **New Bill** button in the ***Patients Bills Management*** window to access the **New Patient Bill** window, shown below.

To record a new bill, it must be saved with the **Save** function (see description below).

Before describing the function of the **New Patient Bill** window, the components of the window are described.

The **New Patient Bill** window is composed of four areas: the **Bill panel** at the top, the **Item panel** in the center, the **Payments panel** at the bottom, and the **Buttons panel** on the right.

Bills are composed of items. A billing item is a cost related to either a pharmaceutical, an operation, an exam, or other/custom costs.

Data shown in the **Bill panel** area are:

- **Date:** the date and time of the bill.
- **Patient:** the patient associated with the bill.
- **List:** the Price List that will be used for this bill

NOTE: Price Lists can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

Data shown in the **Item Panel** area are:

- **ITEM, QTY, AMOUNT:** the descriptions of the bill entry, the selected quantity, and the amount;

the amount is calculated as the unit cost of the item multiplied by the quantity;

- **TOTAL:** the total amount of the bill

NOTE: Prices, or unit costs, can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

Data shown in the **Payments panel** area are:

- **Date:** the date and time of the payment.
- **Amount:** the amount of the payment.
- **BALANCE:** the remaining amount to be paid (the difference between the Total (*) and the sum of the payments).

New Patient Bill

Date	10/10/2022	18:18	Find Patient	admin
Patient			List Basic	OPD
TOTAL		UGX	0	
ITEM		QTY	AMOUNT	
TO PAY		UGX	0	
BALANCE		UGX	0	

Medical
Operation
Exam
Other
Custom
Remove Item

Payment
Refund
Payment Receipt
Remove Payment
Give Change
Save
Paid
Close

To insert a new bill, the **Date field** value is required. The application defaults to the current date and time, but the values can be modified.

In addition, a patient must be selected. To do that, press the **Find Patient** button on top of the screen. The **Patient Selection** window is shown:

Patient Selection

CODE	NAME
519	Jeanna Rickember
518	Jeremy Lindon
517	Maria Njoko
516	Genna Susterlind
515	Alvaro Robertson
514	Mario Rossi
513	Makenzie Everton
512	Millman Enriqueta
511	Henderson Alba
510	Racuba Scottie
509	Ventier Asia
508	De Koenig Melissa
507	Westermann Fred
506	Zabel John
505	Curtney Gina
504	Froue Jane
503	Sturgeon Charlie
502	Furlong Merryman
500	Matthews Ruth
499	Vessin Jordan
498	Falky Mady
497	Vernon Reklin
496	Angelo Jaime
495	Rodriguez Oscar
494	James Veronica
493	Musso Kina
492	Ballantine Lashawna
491	Holter Josette
490	Cairo Tawnya
489	Morning Mellisa
488	Glennis Isabelle
487	Johansen Tamia



Name:
Age:
Sex:
TOB:

Tax Number ID

Address City

Parents

Next of Kin Telephone

Blood Type Insurance

Marital Status Profession

Patient Notes

Select **Cancel**

Once the patient is selected, start entering the data related to the bill.



A patient can have several pending bills only if the parameter ALLOWMULTIPLEOPENEDBILL is enabled (see the Administrator Manual). Otherwise, if the patient has a pending bill, the bill will be recalled to edit it. A new bill cannot be started for a patient before closing the previous bill.

There are several types of bill categories (or types) identified by the buttons in the **Buttons panel** on the right of the window:

- **Medical**: enter bill entries for pharmaceuticals.
- **Operation**: enter bill entries for operations.
- **Exam**: enter bill entries for exams.
- **Other**: enter other prices defined in the Price List.
- **Custom**: enter custom items defined on the fly.



Types can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

6.2.1.1 Insert a Bill Entry Related to Medicals, Operations or Exams (**Medical**, **Operation**, **Exam**)

We show here how to insert a bill entry for pharmaceutical (**Medical**); the function to insert a bill entry for operation (**Operation**) and exam (**Exam**) is the same with the only difference that for the

last two the quantity is not required (the quantity is always 1).

New Patient Bill

Date	10/10/2022	18:18	Change Patient	admin
Patient	Sara Hucklington	List	Basic	OPD
TOTAL		UGX	10	
ITEM		QTY	AMOUNT	
Cyclophosphamide 500mg Vial		1	0.0	
5 days of hospitalization		1	10.0	
TO PAY		UGX	10	
10/10/2022 18:20			7.0	
BALANCE		UGX	3	

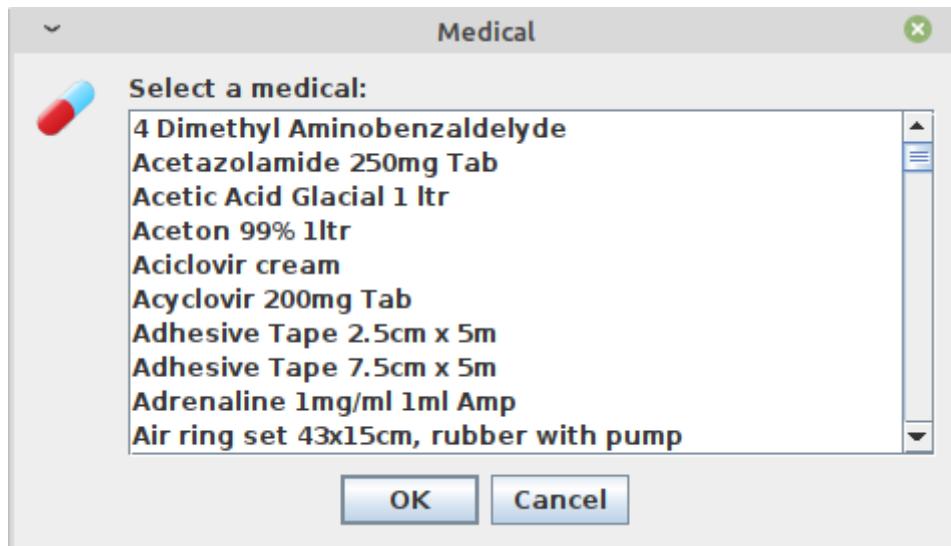
Buttons panel:

- + Medical
- + Operation
- + Exam
- + Other
- + Custom
- ✖ Remove Item

Buttons panel:

- + Payment
- + Refund
- 🖨 Payment Receipt
- ✖ Remove Payment
- coins Give Change
- disk Save
- checkmark Paid
- 🚫 Close

To insert a bill entry, press the **Medical** button. The **Medical** window is shown:



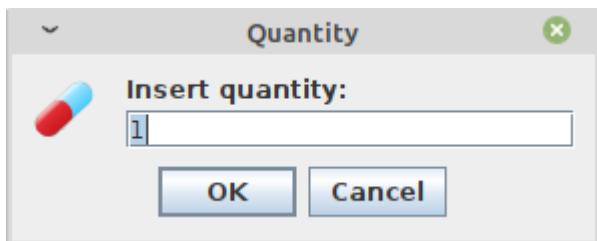
Using the mouse, highlight the required pharmaceutical (medical).

The **Buttons panel** of the **Medical** window has the following choices:

- **OK**: select the highlighted pharmaceutical

- Cancel: return to the **New Patient Bill** window without selecting any pharmaceutical

If **OK** is selected, the **Quantity** window is shown, where the quantity of the pharmaceutical used by the patient can be entered:

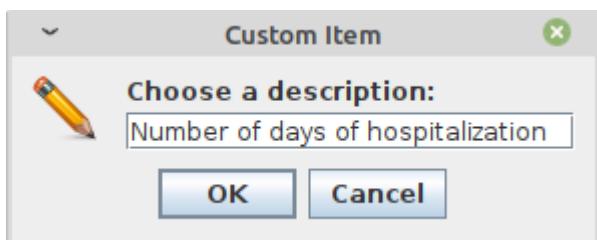


The **Buttons panel** of the **Quantity** window has the following choices:

- **OK**: select the highlighted pharmaceutical and return to the **New Patient Bill** window.
- Cancel: return to the **New Patient Bill** window without selecting any pharmaceutical.

6.2.1.2 Insert a Bill Entry Related to Various Custom Reasons (**Custom**)

To insert a custom bill entry, press the **Custom** button. The application will show the **Custom Item** window, shown below.



In this window, enter a description for the custom item (in the example above, it is “Number of days of hospitalization”).

The **Buttons panel** of the **Custom Item** window has the following choices:

- **OK**: go to another **Custom Item** window (to enter the quantity, see below).
- Cancel: return to the **New Patient Bill** window without inserting any custom bill entry.



In the **Custom Item** window, enter the amount related to the bill entry (in the example above, the “20” is in the local currency, i.e., it is in US dollars if the country is the USA).

The **Buttons panel** of the **Custom Item** window has the following choices:

- **OK**: confirm the bill entry and return to the **New Patient Bill** window.

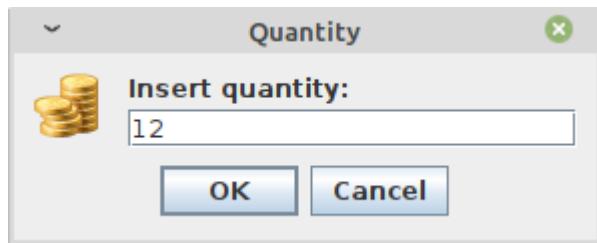
- Cancel: return to the **New Patient Bill** window without inserting any bill entry.

6.2.1.3 Remove a Bill Entry of a Bill (Remove Item)

To remove a bill entry, select the bill in the **New Patient Bill** window and then press the **Remove Item** button. The selected bill entry is removed. Bill entries can be removed before or after the final saving (see the [Save function](#) described below).

6.2.1.4 Insert a Payment (Payment)

To insert a payment, press the **Payment** button. The application shows the **Quantity** window, shown below.



Provide the amount of the payment (in the example above, the “12” is in the local currency, i.e. it is US dollars if the country is the USA) in the text field.

The **Buttons panel** of the **Quantity** window has the following choices:

- OK: confirm the payment and return to the **New Patient Bill** window.
- Cancel: return to the **New Patient Bill** window without inserting any payment.

6.2.1.5 Insert a Refund (Refund)

Sometimes the cashier has to process a refund for the patient; in this case, press the **Refund** button and insert the amount of the refund. The amount is converted to a negative value and added to the payments list.

6.2.1.6 Payment Receipt (Payment Receipt)

A Payment receipt can be printed at any time given that at least one payment is made. Click the **Payment Receipt** button.

6.2.1.7 Remove a Payment (Remove Payment)

A payment can be removed by selecting the payment in the **New Patient Bill** window and then pressing the **Remove Payment** button.

6.2.1.8 Give Change (Give Change)

Sometimes it could be useful to calculate the difference between the bill balance and the payment amount the patient is making when paying their bill. By pressing the **Give Change** button, the amount the patient is paying must be specified and the program calculates the difference between the payment and the current bill balance. If the amount being paid is greater than the bill balance (i.e., they are overpaying), the amount of change to give to the patient is displayed.

6.2.1.9 Save Function (Save)

When all the data input for a bill is completed (bill or payments), press the **Save** button in the **Buttons panel** of the **New Patient Bill** window.

The application saves the bill and returns to the **Patient Bills Management** window; the status of the bill is “O” (Open) until it is PAID (**Paid**).

6.2.1.10 Paid Function (Paid)

If the patient is going to pay the complete amount of the bill, press the **Paid** button. If the balance is not equal to zero, the system automatically adds a payment in the payments list equal to the balance and sets the bill as “C” (Closed).

6.2.1.11 Print Receipt Function

A receipt can be printed at any time by pressing the **Paid** button. *To enable this feature, the RECEIPTPRINTER flag in the configuration file must be set and a proper printer device must be connected to the system. Ask the Administrator or refer to the Administrator’s Guide.*

6.2.1.12 Close Function (Close)

The close function allows for optionally exiting from the **New Patient Bill** window without saving changes. Press the **Close** button to access the close function. The confirmation window is shown:



6.2.2 Edit an Existing Bill (Edit Bill)

To modify an existing bill, select the bill in the **Patient Bills Management** window and then press the **Edit Bill** button. The **Edit Patient Bill** window is shown:

Edit Patient Bill: 46

Date	09/11/2021		17:44				admin
Patient	Philomena Redondo				List	Basic	
TOTAL		UGX	102				
ITEM		QTY	AMOUNT				
Caesarian section		1	80.0				
Acetazolamide 250mg Tab		2	0.0				
Suture Silk (1) S595		2	12.0				
2.1 Grouping		1	10.0				
TO PAY		UGX	102				
09/11/2021 17:44			110.0				
09/11/2021 17:44			-80.0				
BALANCE		UGX	72				

- [Medical](#)
- [Operation](#)
- [Exam](#)
- [Other](#)
- [Custom](#)
- [Remove Item](#)

- [Payment](#)
- [Refund](#)
- [Payment Receipt](#)
- [Remove Payment](#)
- [Give Change](#)
- [Save](#)
- [Paid](#)
- [Close](#)



Only bills with a status of "O" (Open) can be modified by enabled users (See [User & Groups](#)); otherwise, an A4 report is shown.

If the bill, at the time of creation, was related to an admitted patient, the related ward is shown in the upper right.

If the patient's status has changed, the application prompts for the next action:

Case 1)

Question

This patient is no longer admitted. Do you want to unlink this bill from the previous admission?

If the answer selected is "Yes", the bill is updated and belongs to the "OPD" category (no admission).

Edit Patient Bill: 46

Date	09/11/2021		17:44				admin
Patient	Philomena Redondo				List	Basic	
TOTAL		UGX	102				 OPD
ITEM		QTY	AMOUNT				
Caesarian section		1	80.0				
Acetazolamide 250mg Tab		2	0.0				
Suture Silk (1) S595		2	12.0				
2.1 Grouping		1	10.0				
TO PAY		UGX	102				
09/11/2021 17:44			110.0				
09/11/2021 17:44			-80.0				
BALANCE		UGX	72				

Medical
Operation
Exam
Other
Custom
Remove Item

Payment
Refund
Payment Receipt
Remove Payment
Give Change
Save
Paid
Close

If the answer selected is "No", the bill remains unchanged and continues to belong to the original admission.

Edit Patient Bill: 46

Date	09/11/2021	<input type="button" value="15"/>	17:44	<input type="button" value="▼"/>	<input type="button" value="Change Patient"/>	<input type="button" value="X"/>
Patient	Philomena Redondo			<input type="button" value="List"/>	<input type="button" value="Basic"/>	<input type="button" value="▼"/>
TOTAL		UGX	102			
ITEM		QTY	AMOUNT			
Caesarian section		1	80.0			
Acetazolamide 250mg Tab		2	0.0			
Suture Silk (1) S595		2	12.0			
2.1 Grouping		1	10.0			
TO PAY		UGX	102			
09/11/2021 17:44			110.0			
09/11/2021 17:44			-80.0			
BALANCE		UGX	72			

+ Medical
+ Operation
+ Exam
+ Other
+ Custom
✖ Remove Item

+ Payment
+ Refund
+ Payment Receipt
✖ Remove Payment
+ Give Change
+ Save
✓ Paid
✖ Close

Case 2)

Question

⚠ This patient is admitted now. Do you want to link this bill to the current admission?

If the answer selected is "Yes", the bill is updated and belongs to the current admission.

Edit Patient Bill: 46 X

Date	09/11/2021		17:44				admin
Patient	Philomena Redondo				List	Basic	MATERNITY WARD
TOTAL		UGX					102
ITEM		QTY	AMOUNT				
Caesarian section		1	80.0				
Acetazolamide 250mg Tab		2	0.0				
Suture Silk (1) S595		2	12.0				
2.1 Grouping		1	10.0				
TO PAY		UGX					102
09/11/2021 17:44			110.0				
09/11/2021 17:44			-80.0				
BALANCE		UGX					72

Medical
 Operation
 Exam
 Other
 Custom
 Remove Item

Payment
 Refund
 Payment Receipt
 Remove Payment
 Give Change
 Save
 Paid
 Close

If the answer selected is "No", the bill is unchanged and is associated with the "OPD" category (no admission)

Edit Patient Bill: 46

Date	09/11/2021	<input type="button" value="15"/>	17:44	<input type="button" value="▼"/>	<input type="button" value="Change Patient"/>	<input type="button" value="Delete"/>	admin
Patient	Philomena Redondo				List	Basic	<input type="button" value="▼"/>
TOTAL		UGX	102				 Medical Operation Exam Other Custom Remove Item
ITEM		QTY	AMOUNT				
Caesarian section		1	80.0				
Acetazolamide 250mg Tab		2	0.0				
Suture Silk (1) S595		2	12.0				
2.1 Grouping		1	10.0				
TO PAY		UGX	102				
09/11/2021 17:44			110.0				
09/11/2021 17:44			-80.0				
BALANCE		UGX	72				

- [Medical](#)
- [Operation](#)
- [Exam](#)
- [Other](#)
- [Custom](#)
- [Remove Item](#)

- [Payment](#)
- [Refund](#)
- [Payment Receipt](#)
- [Remove Payment](#)
- [Give Change](#)
- [Save](#)
- [Paid](#)
- [Close](#)

Case 3)

Question

This bill was linked to a previous admission. Do you want to link it to the current admission instead?

If the answer selected is "Yes", the bill is updated and belongs to the current admission.

Edit Patient Bill: 46

Date	09/11/2021		17:44				admin
Patient	Philomena Redondo				List	Basic	
TOTAL		UGX	102				
ITEM		QTY	AMOUNT				
Caesarian section		1	80.0				
Acetazolamide 250mg Tab		2	0.0				
Suture Silk (1) S595		2	12.0				
2.1 Grouping		1	10.0				
TO PAY		UGX	102				
09/11/2021 17:44			110.0				
09/11/2021 17:44			-80.0				
BALANCE		UGX	72				

MATERNITY WARD

- [Medical](#)
- [Operation](#)
- [Exam](#)
- [Other](#)
- [Custom](#)
- [Remove Item](#)

- [Payment](#)
- [Refund](#)
- [Payment Receipt](#)
- [Remove Payment](#)
- [Give Change](#)
- [Save](#)
- [Paid](#)
- [Close](#)

If the answer selected is "No", the bill is unchanged and belongs to the original admission.

X

Edit Patient Bill: 46

Date	09/11/2021	<input type="button" value="15"/>	17:44	<input type="button" value="▼"/>	<input type="button" value="Change Patient"/>	<input type="button" value="X"/>	admin
Patient	Philomena Redondo				List	Basic	<input type="button" value="▼"/>
TOTAL		UGX	102			FEMALE WARD	
ITEM		QTY	AMOUNT				
Caesarian section		1	80.0				
Acetazolamide 250mg Tab		2	0.0				
Suture Silk (1) S595		2	12.0				
2.1 Grouping		1	10.0				
TO PAY		UGX	102				
09/11/2021 17:44			110.0				
09/11/2021 17:44			-80.0				
BALANCE		UGX	72				

[Medical](#)
[Operation](#)
[Exam](#)
[Other](#)
[Custom](#)
[Remove Item](#)

[Payment](#)
[Refund](#)
[Payment Receipt](#)
[Remove Payment](#)
[Give Change](#)
[Save](#)
[Paid](#)
[Close](#)

The relation of a bill with a patient admission is found in the last column in the "Patient Bills Management" window:

Patient Bills Management

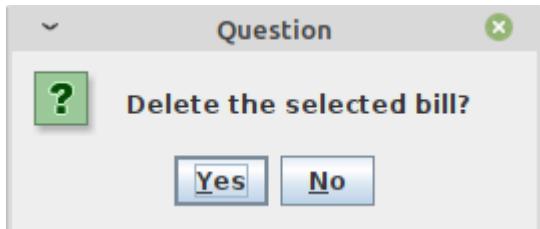
USER	ID	DATE	PAT. ID	PATIENT	AMOUNT	LAST PAYMENT	STATUS	BALANCE	IN/OUT
admin	47	09/11/2021 18:29	540	Redy Villen	80.0	09/11/2021 18:30	C	0.	
admin	46	09/11/2021 17:44	539	Philomena Redondo	102.0	09/11/2021 17:44	O	72.0	
admin	45	09/11/2021 17:22	537	Wally Simpsons	60.0	09/11/2021 17:22	C	0.	
admin	44	09/11/2021 15:40	535	Kenny Flanagan	151.0	09/11/2021 15:41	C	0.	
admin	43	09/11/2021 15:39	534	Mirta Veluma	80.0	09/11/2021 15:39	O	30.0	

↑

Paid Today: UGX 0 Not Paid: UGX 0
 Paid Period: UGX 371 Not Paid: UGX 102
 admin Today: 0 admin Period: 371

6.2.3 Delete a Bill (Delete Bill)

To delete an existing bill, select the bill in the **Patient Bills Management** window and press the **Delete Bill** button. The **Delete** window is shown:



Generally, this functionality is not allowed for regular users and should be performed only by the Administrator.

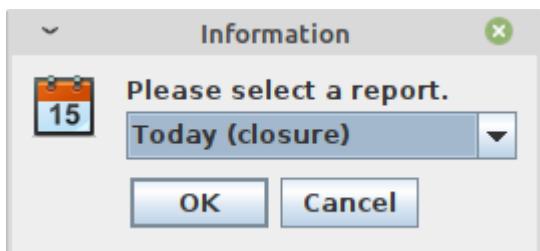
6.2.4 Receipt (Receipt)

A bill receipt can be printed directly from the **Patient Bills Management** window. Highlight the bill and click the **Receipt** button. A proper printer device must be connected to the system.

6.2.5 Reports (Report)

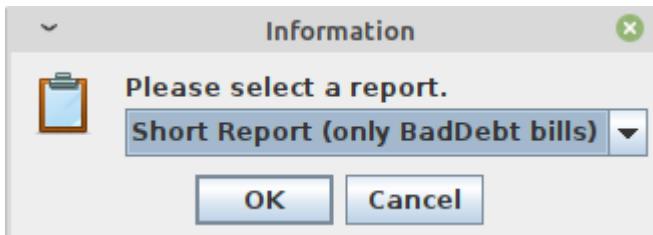
The Open Hospital accounting module comes with a set of reports hereby listed:

- **Today (Closure):** a report that shows the current user incomes
- **Today:** a report that shows a statement with all paid and unpaid bills for today
- **Period:** a report that shows a statement with all paid and unpaid bills within the period currently selected
- **This month:** a report that shows a statement with all paid and unpaid bills within the current month
- **Select month:** a report that shows a statement with all paid and unpaid bills within the specified month
- **Patient's Statement:** a report that shows a statement with all paid and unpaid bills for the selected patient



For each report, except Today (Closure), one of the following options must be chosen:

- **Short Report (only BadDebts bills):** a report that shows a statement with only the unpaid bills and the total for the others
- **Full Report (all bills):** a report that shows a statement with all paid and unpaid bills



Once the choice has been made, after some time the JasperViewer® will show the generated report as follows:



By default, an internal PDF viewer is used. An external PDF reader can be used by modifying the INTERNALVIEWER flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

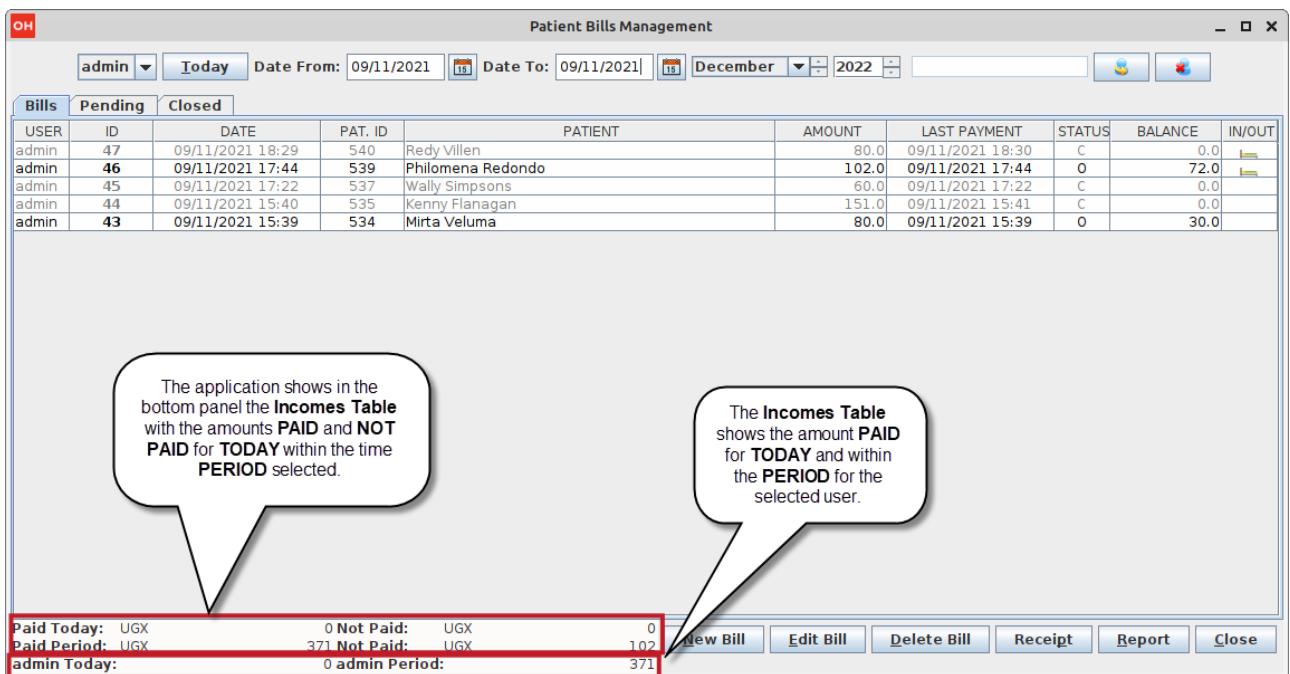
The PDF report can be saved by clicking on the save button (). The report can also be printed by clicking on the print button ().



A PDF copy of every report is always saved within the folders of Open Hospital. Ask the Administrator or refer to the *Administrator's Guide*.

6.3 Functions of Accounting in Multi-user Mode

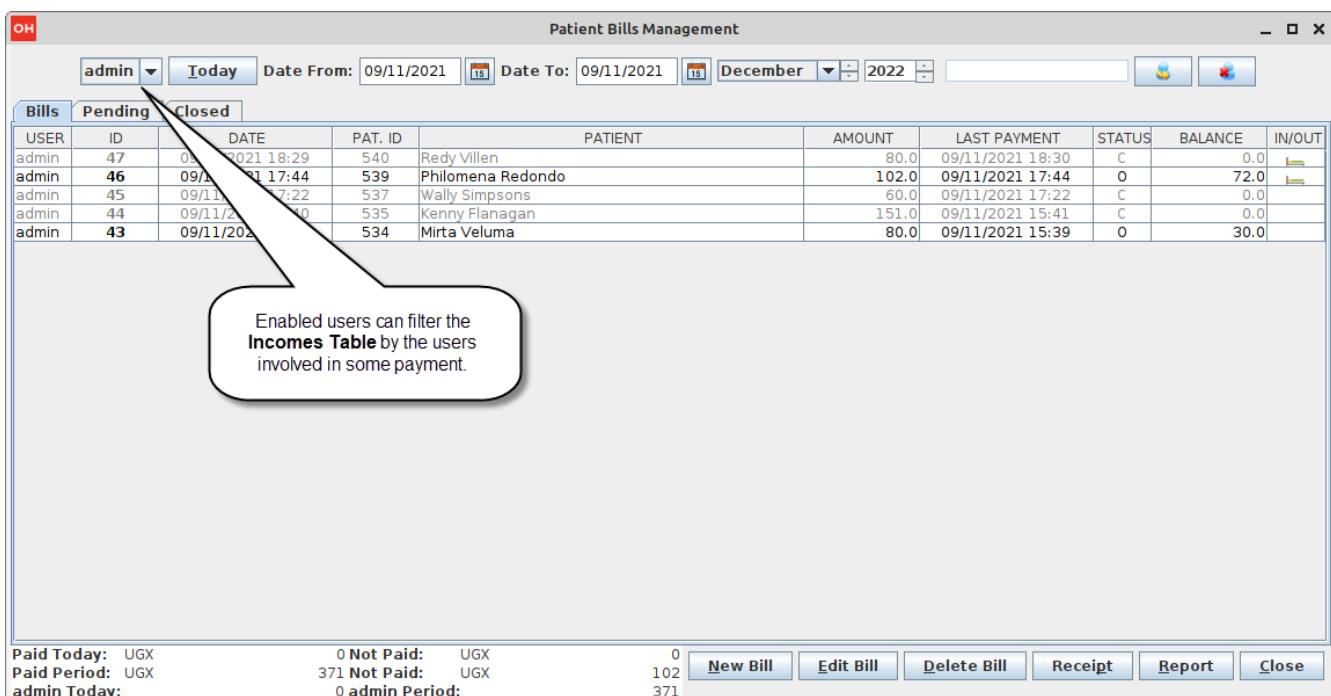
In multi-user mode, the Incomes Table will show only the Incomes for the logged user:



So, the **Incomes Table** will show the following information:

- **First Row:** the **PAID** and **UNPAID** for **Today**
- **Second Row:** the **PAID** and **UNPAID** for the specified **Period**
- **Third Row:** the **PAID** and **UNPAID** for the current **user** for **Today**

The Administrator, or any enabled user (See [User & Groups](#)), can filter all incomes for all users with a payment amount:

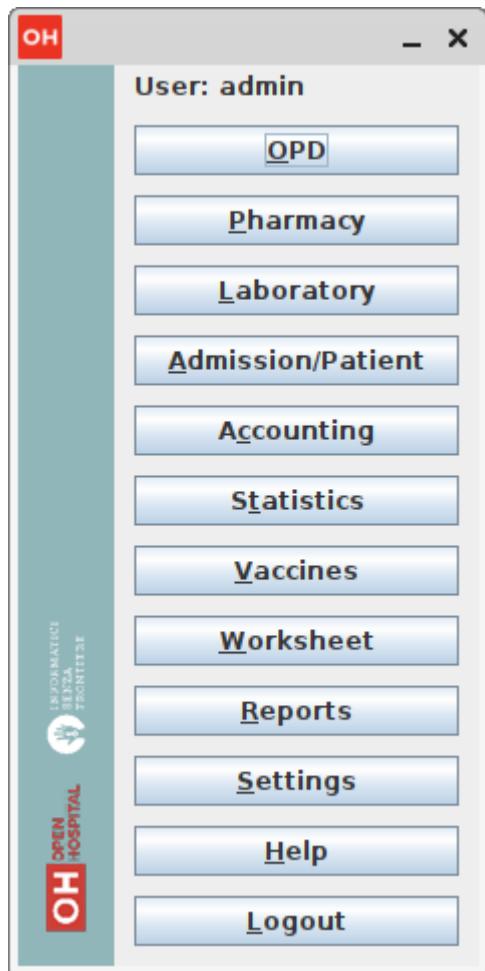


7 Vaccines (Vaccines)

7.1 Main Characteristics

The vaccines functions are used to manage vaccines for all the registered patients. It is possible to register vaccinations, modify or delete them. A specific search function is also available.

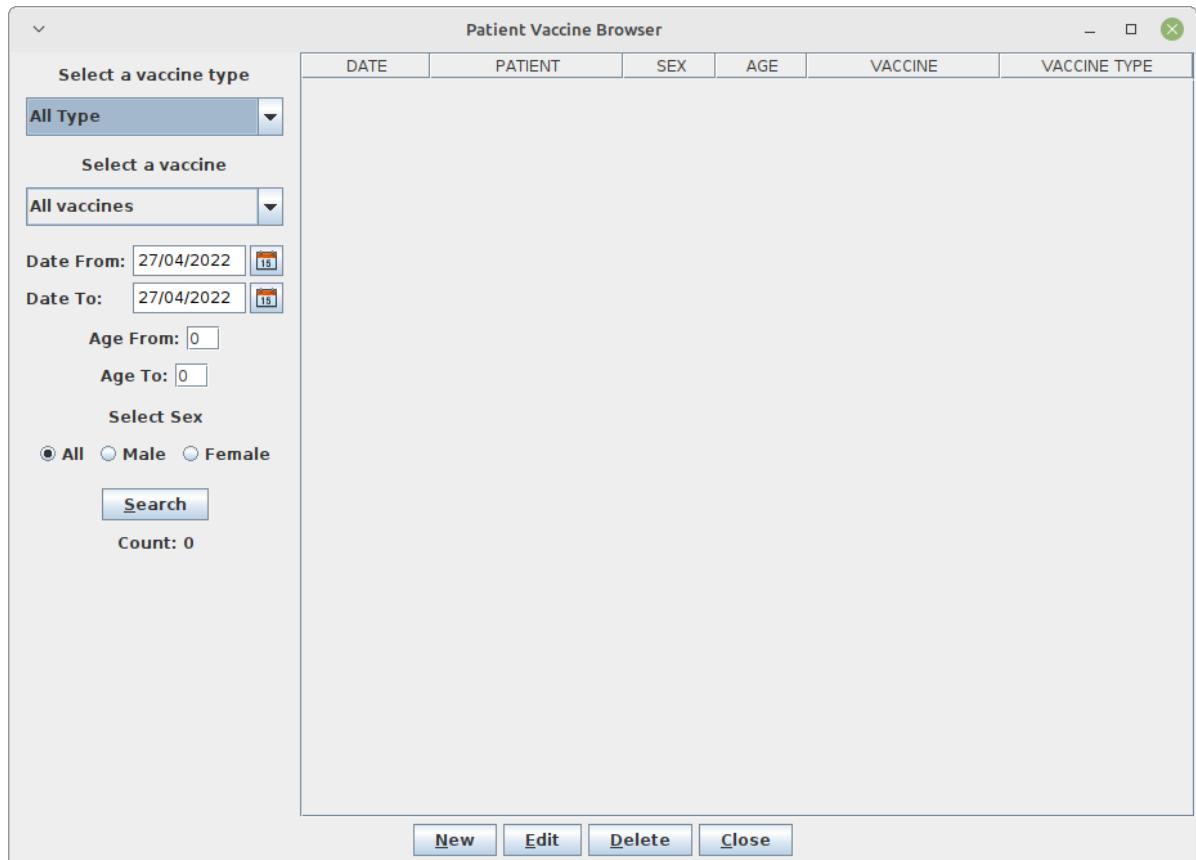
*Click with the mouse on the button or press "Alt + V" to enter the **Patient Vaccine Browser** window*



7.2 Functions of Vaccines

All functions available under **Vaccines** are accessible from the window **Patient Vaccine Browser** window, shown below.

By default, the window shows in the **Data table** all the vaccinations added to the system in the last week.



The following functions are accessible from the **Buttons panel** of the **Patient Vaccine Browser** window:

- **New**: insert a new vaccination.
- **Edit**: modify a stored vaccination.
- **Delete**: delete a stored vaccination.
- **Close**: exit from the **Patient Vaccine Browser** window and return to the main menu.

Furthermore, there is a search function available in the **Selection panel** on the left of the window.

7.2.1 Search Vaccinations

Queries about vaccinations can be done using the search criteria available in the **Selection panel** area of the window (left side of the window). The results of the search are shown in the **Data table** area.

Vaccinations can be selected by choosing specific field values from the following list:

- **Vaccine type**: selection of a vaccine type to filter the vaccines list
- **Vaccine**: select a specific vaccine or all vaccines with "All vaccines"
- **Date**: “**Date: From**” and “**Date: To**” subsets the vaccinations to a specific time period
- **Age**: “**Age From**” and “**Age To**” subsets the patients subject to vaccinations by an age range
- **Sex**: All / Male / Female



Vaccine Types and Vaccines can be defined by the Administrator. Ask the

Administrator or check the [Settings](#) chapter.

After the selection, press the **Search** button; the system shows in the **Data table** the results of applying the search criteria requested.

The function also shows in the field “Count:” the number of vaccinations that are shown in the **Data table** (in the example, there are 26).

Patient Vaccine Browser					
Select a vaccine type	DATE	SEX	AGE	VACCINE	VACCINE TYPE
All Type	15/03/2021	M	1	POLIO 1 C	Child
	15/03/2021	F	37	TT VACCINE DOSE 2	Pregnant
	15/03/2021	M	35	TT VACCINE DOSE 3	Pregnant
	15/03/2021	M	54	TT VACCINE DOSE 4	Pregnant
	23/11/2020	M	57	POLIO 3 C	Child
	23/11/2020	F	50	TT VACCINE DOSE 2	Pregnant
All vaccines	23/11/2020	M	14	MEASLES	Child
	22/11/2020	M	2	POLIO 3 C	Child
Date From:	19/07/2001			POLIO 1 C	Child
Date To:	26/07/2021			M 2	Child
Age From:	0			MEASLES	Child
Age To:	0			POLIO 2 C	Child
Select Sex				TT VACCINE DOSE 3	Pregnant
<input checked="" type="radio"/> All <input type="radio"/> Male <input type="radio"/> Female				TT VACCINE DOSE 2	Pregnant
Search				DPT 2 - HepB + Hib 1	Child
Count: 26				DPT 3 - HepB + Hib 1	Child
				POLIO 1 C	Child
				DPT 2 - HepB + Hib 1	Child
				DPT 3 - HepB + Hib 1	Child
				TT VACCINE DOSE 2	Pregnant
				MEASLES	Child
				BCG	Child
				TT VACCINE DOSE 5	No pregnant
				TT VACCINE DOSE 4	Pregnant
				BCG	Child
				POLIO 3 C	Child
				TT VACCINE DOSE 3	No pregnant

7.2.2 Insert a New Patient Vaccination ([New](#))

This function is used to register a new patient vaccination.

Press the **New** button in the **Patient Vaccine Browser** window to access the **New Patient Vaccine** window, shown below.

New Patient Vaccine								
Date	13/04/2022	<input type="button" value="15"/>	Progressive	27	<input type="button" value="X"/>			
Search Patient	<input type="text"/>	<input type="button" value="🔍"/>	Select a patient	<input type="button" value="▼"/>				
Vaccine Type	All Type							
Vaccine	All vaccines							
Patient's Data	<table border="1"><tr><td>Name</td><td>Age</td><td>Sex (M/F)</td></tr></table>					Name	Age	Sex (M/F)
Name	Age	Sex (M/F)						
	<input type="button" value="OK"/>	<input type="button" value="Cancel"/>						

To record a new patient vaccination, enter the following fields:

- **Date:** the date of the vaccination

- **Progressive:** the progressive number in the year (set automatically by the system)
- **Patient:** select the patient by entering the **Patient code** or selecting a patient
- **Vaccine Type:** the Vaccine Type
- **Vaccine:** the vaccine



Vaccine Types and Vaccines can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

When all the required information is entered, the **Buttons panel** has the following choices:

- **OK:** confirm the data and record the patient vaccination.
- **Cancel:** close the window and return to the **Patient Vaccine Browser** window without recording the patient vaccination,

7.2.3 Modify Data of a Recorded Patient Vaccination ([Edit](#))

To modify data of a patient vaccination, select the vaccination in the **Patient Vaccine Browser** window and then press the **Edit** button. When the **Edit Patient Vaccine** window is shown, the record is available for changes. Date, vaccine type, and the vaccine can be changed:

Edit Patient Vaccine			
Date	21/11/2020	<input type="button" value="15"/>	Progressive 16
Search Patient	<input type="text"/> Shultz Ardis	<input type="button" value="🔍"/>	<input type="button" value="▼"/>
Vaccine Type	Child		
Vaccine	POLIO 2 C		
Patient's Data			
Name	Shultz Ardis	Age	51
Sex (M/F) F			
<input type="button" value="OK"/>		<input type="button" value="Cancel"/>	

All the data for the vaccination can be changed except for the patient associated with the vaccination.

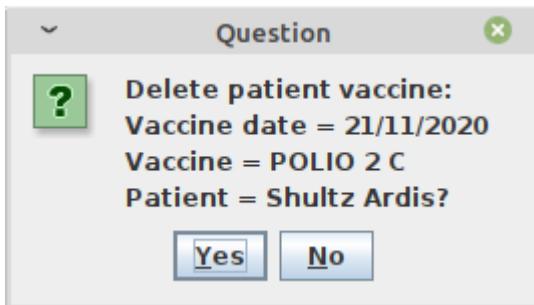
Once all the changes are made, the **Buttons panel** has the following choices:

- **OK:** confirm the new values (all the previous values will be lost).
- **Cancel:** close the window and return to the **Patient Vaccine Browser** window without changing any values.

7.2.4 Delete a Patient Vaccination ([Delete](#))

To delete a stored patient vaccination, select the vaccination in the table in the **Patient Vaccine Browser** window. Next, press the **Delete** button. The confirmation window is shown. The

vaccination can then be deleted. Deleted vaccinations are no longer available.



7.3 Vaccines Extended (Vaccines)

The vaccine functionality can be extended by changing the *PATIENTVACCINEEXTENDED* flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

7.3.1 Extended Vaccine Browsing

The extended version of the window looks like the following:

Patient Vaccine Browser					
DATE	PATIENT	SEX	AGE	VACCINE	VACCINE TYPE
15/03/2021	Vessin Jordan	M	1	POLIO 1 C	Child
15/03/2021	Genina Justerin	F	37	TT VACCINE DOSE 2	Pregnant
15/03/2021	Anthon Jeremy	M	35	TT VACCINE DOSE 3	Pregnant
15/03/2021	Marcus Kellop	M	54	TT VACCINE DOSE 4	Pregnant
23/11/2020	Heard Elna	M	57	POLIO 3 C	Child
23/11/2020	Orbison An	F	50	TT VACCINE DOSE 2	Pregnant
23/11/2020	Horwitz Stuart	M	14	MEASLES	Child
22/11/2020	Rochester Lenny	M	2	POLIO 3 C	Child
21/11/2020	Lounsbury Valda	F	6	POLIO 1 C	Child
21/11/2020	Sargeant Milda	M	2	MEASLES	Child
21/11/2020	Shultz Ardis	F	51	POLIO 2 C	Child
21/11/2020	Madaline Mincks	F	52	TT VACCINE DOSE 3	Pregnant
20/11/2020	Ciancio Michale	F	29	TT VACCINE DOSE 2	Pregnant
20/11/2020	Batman Camelia	F	1	DPT 2 - HepB + Hib 1	Child
20/11/2020	All Norman	M	41	DPT 3 - HepB + Hib 1	Child
20/11/2020	Erdmann Dustin	F	2	POLIO 1 C	Child
20/11/2020	Nerina Vernell	F	2	DPT 2 - HepB + Hib 1	Child
20/11/2020	Jeana Bennett	F	41	DPT 3 - HepB + Hib 1	Child
20/11/2020	Saucedo Hortense	F	42	TT VACCINE DOSE 2	Pregnant
20/11/2020	Deschamp Shonda	F	6	MEASLES	Child
20/11/2020	Andrepong Golden	M	16	BCG	Child
20/11/2020	Veloz Su	F	79	TT VACCINE DOSE 5	No pregnant
20/11/2020	Abdul Burton	M	33	TT VACCINE DOSE 4	Pregnant
20/11/2020	Mcscherry Mortimer	M	13	BCG	Child
20/11/2020	Merrihew Pamila	M	35	POLIO 3 C	Child
19/11/2020	Mario Rossi	M	30	TT VACCINE DOSE 3	No pregnant

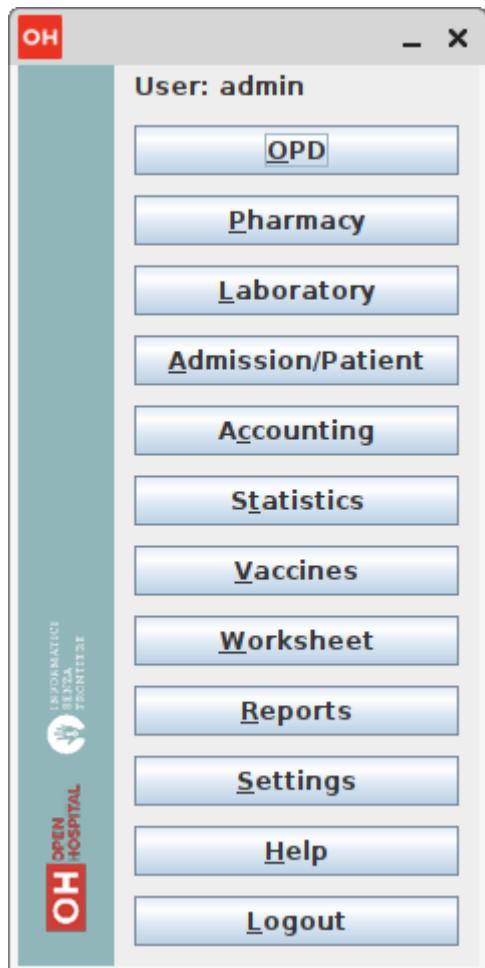
The only difference is that there is a new column containing the name of the patient.

8 Admission/Patient (Admission/Patient)

8.1 Main Characteristics

The Admission/Patient functionality allows registering a new patient, modifying their personal details, browsing their history, and admitting them to a hospital ward.

*Click with the mouse on the button or press "Alt + A" to enter the **Patient Browser** window*



i An OPD registration can be started from here if the OPDEXTENDED flag is set to YES. Ask the Administrator or refer to the *Administrator's Guide*.

8.2 Functions of Admission/Patients

All the functions available under **Admission/Patient** are accessible from the **Patient Browser** window, shown below.

By default, the window shows a **Data table** with all of the patients currently present in the system.

Patient Browser								
Admission Status	CODE	NAME	AGE	SEX	CITY / ADDRESS / TELEPHONE / NOTE	WARD	FEMALE WARD	
All	553	Yellen Unison	25y 4m 0d	F	Tuscin - Maddy rd. 90 - +39			
	552	Troy Daniels	45y 4m 0d	M	Kroster - Joysan avenu 27 - +33143143431			
Ward	551	Anna Porttson	13y 4m 0d	F	Roty - Road Village st. 1 - +11.4322121			
<input checked="" type="checkbox"/> CHILDREN WARD	550	Loredana Worthy	51y 10m 1...	F	Misty city - Portland way 4 - +551354224			
<input checked="" type="checkbox"/> FEMALE WARD	549	Kerry Johnson	2y 6m 6d	M	Madison Town - Local way 27/2 - +2145245253			
<input checked="" type="checkbox"/> MALE WARD	548	Many Farway	73y 3m 28d	F	Verlink - Marins Place 86/b - +39			
<input checked="" type="checkbox"/> MATERNITY WARD	547	John Mastry	55y 4m 1d	M	Keiring - Korty Road t. 55 - +144542245			
Count: 501	546	Jennifer Florence	5y 3m 29d	F	Johnson - Sesame st. 26/2 - +2245423234			
Age	545	Kenny Gurion	41y 4m 2d	M	Resping - Wayland town N 45 - +442315435425			
From: <input type="text"/> To: <input type="text"/>	544	Rosa Ursly	21y 4m 21d	F	Maryn - Westington st. N. 45 - +39			
Sex	543	Jeremy Keenan	47y 3m 25d	M	Gherson - Giant Plaza 24 - +39213221312	MALE WARD		
All	542	Jeff Buskey	22y 1m 13d	M	Kernigan - Ruster Street 27 - +851344333			
	541	Philomena Jenkins	38y 11m 5d	F	Wellington - Western park N. 23 - +72145462545			
	540	Redy Villen	44y 3m 23d	F	Bloomingdale - Willer road 81 - +393134341			
	539	Philomena Redondo	40y 10m 7d	F	Muoni - Westfield district - +180287435746545			
	538	Veronica Erini	3y 2m 21d	M	Urho - New place 1 - +2154213134314			
	537	Wally Simpsons	47y 0m 29d	M	New Village - Remsy Av. 1 - +4423112313			
	536	George Benjilson	53y 4m 0d	M	Ulukay - Jefferson st. 25b - +1443521111			
	535	Kenny Flanagan	57y 0m 3d	M	Wes - First st. 762 - +123451354			
	534	Mirta Voluma	42y 0m 29d	F	Alimbu - Ambaloy way - +3942313123			
	533	Jennifer Stanton	27y 0m 21d	F	Madison - St. Regents Plaza 1 - +39			
	532	Kevin Abarburu	44y 7m 3d	M	Medington - St. Regents Road 45 - +21.112431545			
	531	Maximilian Huntis	56y 6m 5d	M	Resthile - Wilson road 51 - +223131312			
	530	Jeanine Smith	25y 11m 1...	F	Springfield - Flanders Rd - +1243111			
	529	Sara Huckleton	3y 3m 6d	F	Kulele - Long Road 1 - +39			
	528	Kenty Willis	16y 10m 1...	F	Jikney - Furja Street 81 - +391441413			
	527	Marcus Kellop	55y 3m 20d	M	Miry - Fullster Pl. 45/b - +396153134			
	526	Genia Justerin	38y 5m 21d	F	Uribe - Ghoulam Rd 231 - +393452432			
	525	Many Garrington	2y 9m 15d	F	Kendrig - Ganston - +393413231			
	524	Geremia Dickinson	69y 9m 29d	M	Kellog - Springfield - +396131211			



If the list of patients becomes very large, it is likely to result in a slowdown of the system, depending on the network settings. It is possible to optimize the use of memory by changing the flag ENHANCEDSEARCH in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

The following data are shown in the **Patient Browser** window:

- **Code:** the patient's code (automatically generated by the application)
- **Name:** the patient's full name
- **Age:** the patient's age in years, months, and days
- **Sex:** the patient's sex
- **City / Address / Telephone / Note:** all this information separated by a “-“
- **Ward:** the ward where this patient is currently admitted; this field is blank if the patient is not admitted to the hospital at the current time

The following functions are accessible from the **Buttons panel** of the window **Patient Browser** window:

- **New:** insert a new patient.
- **Edit:** modify an existing patient.
- **Delete:** delete an existing patient.
- **Admission:** manage the admission of the patient in the hospital.
- **Anamnesis:** manage the medical history, case history, or anamnesis of a patient.
- **Examination:** manage the patient examination.
- **OPD:** start an OPD visit on the selected patient.
- **Laboratory:** start a new laboratory exam on the selected patient.
- **Bill:** start a bill on the selected patient.
- **Data:** modify data for a patient, including the history of their admissions/out of patient visits as well as their malnutrition data.
- **Clinical Sheet:** analyze the clinical sheet of a patient and print it.

- **Therapy:** manage the therapy of a patient.
- **Close:** exit from the **Patient Browser** window and return to the main menu.



It is possible to have an **Imaging** function that allows for the loading and viewing of image files for the selected patient by changing the flag DICOMMODULEENABLED in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.



It is possible to have a **Merge** function that can be used in the case of double patient registration, by changing the flag MERGEFUNCTION in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

Furthermore, a search function is available using the **Selection panel** on the left of the window.

8.2.1 Search Patient

Queries about patients can be done using the search criteria available in the **Selection panel** area of the window (left side of the window). The results of the search are shown in the **Data table** area.

Patient selection can be accomplished by specifying a specific value for the fields in the following list:

- **Admission Status.** The choices are:
 - **All:** all patients are included in the selection
 - **Admitted:** only patients admitted are included in the selection
 - **Not Admitted:** only patients not admitted are included in the selection
- **Ward.** Select one or more wards:
 - **Children Ward**
 - **Female Ward**
 - **Male Ward**
 - **Maternity Ward**
- **Age.** Specify the patient's age range
- **Sex.** Specify the patient's gender:
 - **All**
 - **Male**
 - **Female**
- **Search Key** Any character string entered is matched against the patient's name and address. A complete string or only some characters can be entered, and the system will show all the patients matching the string. For example, entering, "isabe", will result in all patients who have "isabe" in their name being selected and displayed; so both "Glennis Isabelle" and "Isaiah Isabelle" are shown.

Patient Browser

CODE	NAME	AGE	SEX	CITY / ADDRESS / TELEPHONE / NOTE	WARD
488	Isabelle Glennis	8y 9m 16d	F	Grove - Downers Rd south - +34123443	
317	Isaiah Isabelle	75y 1m 0d	M	Gary Town - Cartersville district 5 - +45211111	

Admission Status
All

Ward
 CHILDREN WARD
 FEMALE WARD
 MALE WARD
 MATERNITY WARD
Count: 2

Age
From: To:

Sex
All

Search Key
isabe

Buttons: New, Edit, Delete, Admission, Anamnesis, Examination, OPD, Laboratory, Bill, Data, Imaging, Clinical Sheet, Therapy, Merge, Close



Wards can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

8.2.2 Search Patient Enhanced

When the number of registered patients becomes huge, memory usage can be optimized by changing the *ENHANCEDSEARCH* flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

Once the enhanced search has been enabled, the new **Patient Browser** window looks like the following:

Patient Browser

CODE	NAME	AGE	SEX	CITY / ADDRESS / TELEPHONE / NOTE	WARD
------	------	-----	-----	-----------------------------------	------

Admission Status
All

Ward
 CHILDREN WARD
 FEMALE WARD
 MALE WARD
 MATERNITY WARD
Count: 0

Date
Admission Date *
 From: To:
Discharge Date
 From: To:

Age
From: To:

Sex
All

Search Key

Buttons: New, Edit, Delete, Admission, Anamnesis, Examination, OPD, Laboratory, Bill, Data, Imaging, Clinical Sheet, Therapy, Merge, Close

Initially, the list is empty. To show some patients, enter a search criterion in the **Search Key** field and then press the search (button) and the window will show only patients matching the specified criteria.

Patient Browser

CODE	NAME	AGE	SEX	CITY / ADDRESS / TELEPHONE / NOTE	WARD
488	Isabelle Glennis	8y 9m 16d	F	Grove - Downers Rd south - + 34123443	
317	Isaiah Isabelle	75y 1m 0d	M	Gary Town - Cartersville district 5 - +45211111	

Admission Status
All

Ward
 CHILDREN WARD
 FEMALE WARD
 MALE WARD
 MATERNITY WARD
 Count: 2

Date
Admission Date *
 From: To:

Discharge Date
 From: To:

Age
 From: To:

Sex
All

Search Key
Isabele

Buttons: New, Edit, Delete, Admission, Anamnesis, Examination, OPD, Laboratory, Bill, Data, Imaging, Clinical Sheet, Therapy, Merge, Close

Moreover, further search criteria are added in this mode:

- **Admission Date:** search for all patients admitted in between the specified dates, regardless if they are still admitted or not
- **Discharge Date:** search for all patients discharged in between the specified dates, regardless if they were admitted again later on



To show the full patient list again, just press the search button with an empty search criterion.

8.3 Insert a New Patient (New)

This function is used to register a new patient into the hospital.

Press the **New** button in the **Patient Browser** window to access the **New Patient** window, shown below.

New Patient

Insert data for a new patient

First Name *	<input type="text"/>
Second Name *	<input type="text"/>
Age *	<input type="text"/>
Sex *	<input checked="" type="radio"/> Male <input type="radio"/> Female
Address	<input type="text"/>
City	<input type="text"/>
Next of Kin	<input type="text"/>
Telephone	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	
Note	
<div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div>	

To record a new patient, enter the following fields:

- **First Name:** the patient's first name
- **Second Name:** the patient's last name or other names
- **Age:** the patient's age in years
- **Sex:** the patient's sex: male or female
- **Address:** the address of where the patient lives
- **City:** the city where the patient lives
- **Next of Kin:** the name of the patient's closest relative
- **Telephone:** the patient's telephone number
- **Note:** a free text for adding notes about the patient

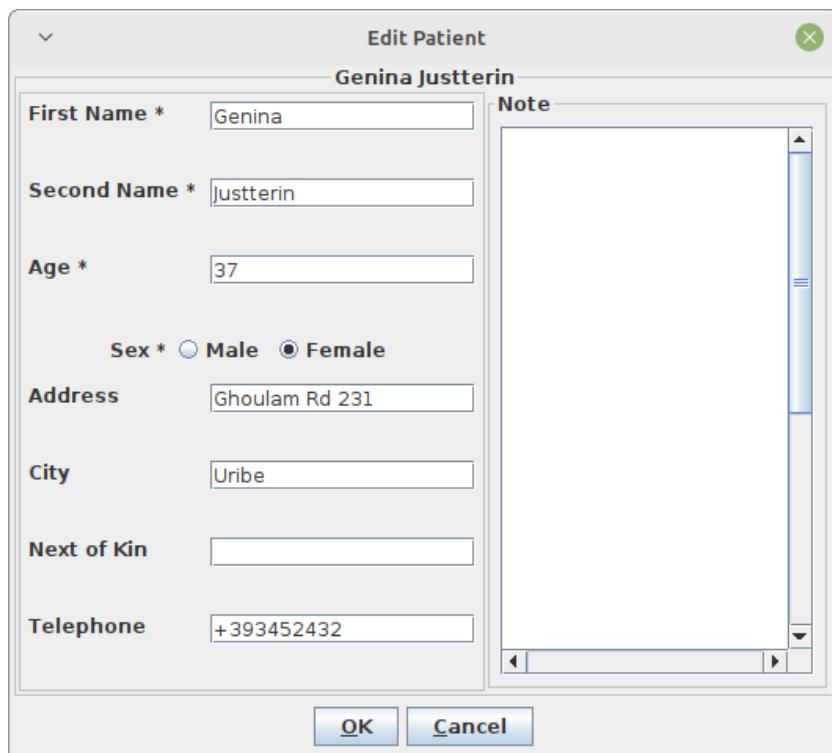
When data entry has been completed, observe that the **Buttons panel** has two choices:

- **OK:** confirm the data and add the patient's record.
- **Cancel:** close the window and return to the **Patient Browser** window without adding the patient.

8.3.1 Modify Data of a Patient (Edit)

To modify the data of a patient, select the patient in the **Patient Browser** window and then press the **Edit** button. When the **New Patient** window is shown, the record is available for changes. All

the data can be changed.



When modification of the data has been completed, observe that the **Buttons panel** has two choices:

- OK: confirm the new values (all the previous values will be lost).
- Cancel: close the window and return to the **Patient Browser** window without changing the patient's data.

8.3.2 Delete a Patient (Delete)

To delete a stored patient, select the patient in the **Patient Browser** window. Next, press the **Delete** button. The name of the patient is shown in the **Question** window below: by pressing "yes", the patient's data is deleted. Deleted information is no longer available in the system. *The patient is not completely removed from the system; ask the Administrator to restore the data if needed.*



In the **Buttons panel**, the choices are:

- Yes: confirm the deletion of the patient.
- No: close the window and return to the previous window.

8.4 Insert a new Patient Extended (New)

The New Patient functionality can be extended by changing the *PATIENTEXTENDED* flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

8.4.1 Additional Features

The New Patient Extended module affords the following improvements:

The screenshot shows the 'New Patient' dialog box. It contains fields for First Name, Second Name, Tax Number ID, Age (with radio buttons for Age, BirthDate, and Description, and input fields for Years, Months, Days), Sex (Male/Female), Address, City, Next of Kin, Telephone, and Father's/Mother's Name. There are also sections for Blood Type, Marital Status, Profession, and Parents are together (Yes/No/Unknown). A 'Patient Photo' section includes a placeholder image and buttons for 'New Photo' and 'File'. A 'Note' area has a scrollable text field. At the bottom, there are 'OK', 'Anamnesis', and 'Cancel' buttons. A note at the bottom left says '* Indicates required fields'.

To record a new patient, the following fields are available:

- **Tax Number ID:** is the national ID or other ID that uniquely identifies the patient
- **Age / BirthDate / Description:** the age can be specified in three different ways:

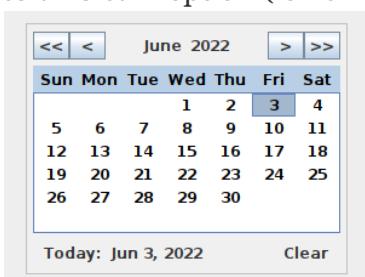


Regardless of how it is entered, the age is converted to an age in years in the *Patient Browser* window.

The date picker includes a "Clear" option (lower right corner) to remove or clear



the current date value.



- **BloodType:** valid values are 0+, A+, B+, AB+, 0-, A-, B-
- **Marital Status:** valid values are Single, Married, Divorced, and Widowed. If left empty, the default is Unknown
- **Profession:** valid values are Other, Farming, Construction, Medicine, Food/Hospitality, Homemaker, Mechanic, Business, Janitorial Services, Mining, and Engineering. If left empty, the default is Unknown
- **Father's Name:** specify the name of the patient's father and if he is still alive
- **Mother's Name:** specify the name of the patient's mother and if she is still alive
- **Parents Together:** specify if the parents are still together
- **Has Insurance:** specify if the patient has a health financial protection plan (insurance)
- **Load File:** a button used to load a patient's picture (which will be cropped and squared)



Age Types (Descriptions) can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

8.4.2 Height and Weight Functionality (Height and Weight)

The height and weight of the patient are not required when registering a new patient. It is done through the examination module available in the **Patient Browser** window.

8.4.3 Patient Photo (New Photo)

The New Patient functionality can be extended by changing the [VIDEOMODULEENABLED](#) flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

Once the video module has been enabled, the **New Patient** window looks as follows:

The screenshot shows the 'New Patient' dialog box with the following fields:

- First Name ***: john
- Second Name ***: smith
- Tax Number ID**: (empty)
- Age ***: (radio buttons for Age, BirthDate, Description; Birth Date: 02/05/2023, 0y 0m 20d)
- Sex ***: (radio buttons for Male, Female; Male selected)
- Address**: (empty)
- City**: (empty)
- Next of Kin**: (empty)
- Telephone**: +39
- Blood Type**: Unknown
- Marital Status**: Unknown
- Profession**: Unknown
- Father's Name**: (empty)
- Mother's Name**: (empty)
- Parents are together**: (radio buttons for Yes, No, Unknown; Unknown selected)
- Has Insurance**: (radio buttons for Yes, No, Unknown; Unknown selected)
- Patient Photo**: Placeholder for a photo, with 'New Photo' and 'File' buttons below it.
- Note**: A large text area for notes.
- The patient**: A section with checkboxes:
 - Has viewed and approved the treatment consent form
 - Consents to the use of the data for additional services
- Buttons**: OK, Anamnesis, Cancel.

By clicking on the **New Photo** button, the webcam should be activated (check for any lights on the

device). The **Patient Photo** window should show what the camera is pointing at.

The screenshot shows the 'New Patient' dialog box. On the left, there is a form for entering patient information. On the right, there is a 'Patient Photo' window displaying a placeholder image of a person's face. Below the photo are two buttons: 'New Photo' and 'File'. At the bottom of the main dialog, there is a note section and a 'The patient' section with checkboxes for consent forms.

This screenshot shows the same 'New Patient' dialog box as above, but with sample data entered into the fields. The 'First Name' is 'john' and 'Second Name' is 'smith'. The 'Birth Date' is set to '02/05/2023'. The 'Note' section contains the text 'Malaria, RTI'.

By clicking again on the **New Photo** button, a picture is taken ready to be attached to the patient information.

8.4.3.1 Camera Settings (📸)

If nothing happens when pressing the **New Photo** button, press the **switch camera** button 📸 that allows switching among the webcams connected to the computer if there is more than one; if only one camera is connected to the computer, it is useful to reset the camera settings and restart it.

Once the camera is activated and the “eye-view” of the camera is visible, press on “+” or “-“ to increase or reduce the image quality.

Open Hospital attempts to automatically set the best quality for any webcam connected to the computer and remembers the last settings used.



If the camera does not function, then change the flag to DEBUG in the configuration file to generate additional diagnostic information. Ask the Administrator or refer to the *Administrator's Guide*.

8.4.6 Anamnesis

The medical history, case history, or anamnesis of a patient is information gained by a physician by asking specific questions either of the patient or of other people who know the person and can give suitable information. The aim is to obtain information useful in formulating a diagnosis and providing medical care to the patient.

To modify the anamnesis data of a patient, select the patient in the **Patient Browser** window and then press the **Edit** button. When the **Edit Patient** window is shown, click on the **Anamnesis** button and the record is available for changes. All the data can be changed.

The screenshot displays the 'Anamnesis' section of the 'Edit Patient' window. It includes the following fields:

- Family History:** Includes checkboxes for 'Nothing to declare', 'Hypertension', 'Drug Addiction', and various disease categories like Cardiovascular, Infective, Endocrine / Metabolic, Respiratory, Neoplastic, Ortopneumatologic, Gyno/Obstetrical, and Other. There are also 'Remarks (Family)' and 'Remarks (Closed)' text areas.
- Past Problems (Closed):** Similar to Family History, with checkboxes for 'Nothing to declare', 'Hypertension', 'Drug Addiction', and disease categories.
- Recent Problems (Open):** Similar to Family History, with checkboxes for 'Nothing to declare', 'Hypertension', 'Drug Addiction', and disease categories.
- Surgeries:** A text area for surgical history.
- Allergies:** A text area for allergies.
- Therapies:** A text area for therapies.
- Usual Medications:** A text area for usual medications.
- Remarks (Extra):** A text area for extra remarks.
- Physiological History:** Includes sections for Diet (checkboxes for Normal, Other), Alvo (checkboxes for Normal, Other), Diuresis (checkboxes for Normal, Other), Alcohol (checkboxes for No, Yes), Smoke (checkboxes for No, Yes), Drugs (checkboxes for No, Yes), Period (checkboxes for Normal, Other), Menopause (checkboxes for No, Yes), HRT (checkboxes for No, Yes), and Pregnancies (checkboxes for No, Yes).
- Buttons:** 'Save' and 'Cancel' buttons at the bottom.

8.4.7 Patient Consensus

Consent from a patient is needed regardless of the procedure, whether it's a physical examination or something else. The principle of consent is an important part of medical ethics and international human rights law. In Open Hospital there are two types of Patient consent: - Consent to treatment: consent to treatment means a person must give permission before they receive any type of medical treatment, test or examination. This field is mandatory. - Consent to additional services - consent to additional services means that the person consents to the use of the registered data for additional services, such as communications, mails, calls, follow ups reminders, digital services, etc. This field is NOT mandatory, but one hospital may decide to introduce it in its paper forms.

8.5 Admission Functions (Admission)

The admission functions include the managing of patient admission, including surgery, delivery, and discharge.

To access the Admission function, first highlight the patient in the **Patient Browser** window. Next, press the **Admission** button.

If the patient is not admitted, then the **New Admission** window is shown.

If the patient is already admitted, then the **Edit Admission Record** is shown.

8.5.1 Start the Admission of a Patient (Admission)

Once a patient is registered, they can be admitted to a hospital ward.

First, to insert the admission of a patient, highlight the patient in the **Patient Browser** window. Once this is done, press the **Admission** button. The **New Admission** window is shown (if the patient is already admitted the **Edit Admission Record** window is shown):

The screenshot shows the 'New Admission' window. On the left, there is a summary of the patient's information: Code: 1, Name: John Smith, Age: 13y 0m 0d, Sex: M. Below this are input fields for Tax Number ID, Address, City, Parents, Next of Kin, Telephone, Blood Type, Insurance, Marital Status, Profession, and Patient Notes. On the right, the 'New Admission' tab is selected. It contains fields for Ward (dropdown), From Health Unit (text input), Progressive in Year (text input), Admission Date (date and time inputs set to 20/01/2023 19:47), Admission Type (dropdown), Diagnosis -IN- (dropdown), Discharge Date (date input), Bed Days (text input), Discharge Type (dropdown), Diagnosis -OUT- (three dropdowns labeled n. 1, n. 2, n. 3), and a checkbox for Malnutrition. At the bottom, there are buttons for Save, Examination, Anamnesis, and Close, with a note that asterisks indicate required fields.

To start an admission, enter the appropriate date into the following fields (on the right side of the window):

- **Ward:** the ward where the patient is admitted
- **From Health Unit:** (not mandatory) in case of referral, optionally enter the name of the facility where the patient came from
- **Progressive in Year:** is the progressive number per year and per ward automatically set by the system; the value can be changed as needed
- **Admission Date:** the date of the admission, automatically set to today
- **Admission Type:** the type of admission (i.e. Ambulance, Self, Referral, etc.)
- **Malnutrition:** (not mandatory) in case of malnutrition, optionally check this box so management of the malnutrition control can be done in the **Patient Data** window (see the Malnutrition control function).

- **Diagnosis IN:** the diagnosis the patient was admitted with



It is possible to filter to find diseases more easily. To do this, enter a text fragment in the search field that is part of the disease name. The closer the search text comes to the name of the disease being searched for, the more precise the search is.



Wards, Admission Types, and Diagnosis can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.



The "Progressive in Year" field is automatically populated by the program; in the case of maternity, the counter starts from the first of January or from the first of June based on the current norm for the health facility. To change the behavior please ask the Administrator to set the [MATERNITYRESTARTINJUNE](#) flag in the configuration file or refer to the *Administrator's Guide*.

When data entry has been completed, observe that the **Buttons panel** has the following choices:

- **Save:** confirm and persist the current values.
- **Examination:** open the **Examination** window (see [Patient examination](#)).
- **Close:** close the window and return to the **Patient Browser** window without applying any changes.

Once the **Save** button is pressed, the **New Admission** window closes and the patient's status is changed in the **Patient Browser** window as shown in the following figure:

Patient Browser						
Admission Status	CODE	NAME	AGE	SEX	CITY / ADDRESS / TELEPHONE / NOTE	WARD
All	531	Mario Rossi	28y 10m 4d	F	Via Verdi - Roma	
	529	Sara Huckleington	0y 9m 6d	F	Kulele - Long Road 1 - +39	
<input checked="" type="checkbox"/> CHILDREN WARD	528	Kenty Willis	14y 6m 20d	F	Jlkney - Furja Street 81 - +3914413	CHILDREN WA...
<input checked="" type="checkbox"/> FEMALE WARD	527	Marcus Kellop	52y 9m 27d	M	Mirly - Fullister Pl. 45/b - +396153134	
<input checked="" type="checkbox"/> MALE WARD	526	Genina Justterin	36y 5m 30d	F	Uribre - Ghoulam Rd 231 - +393452432	
<input checked="" type="checkbox"/> MATERNITY WARD	525	Mary Garrington	0y 7m 17d	F	Kendring - Ganston - +39	
Count: 478	524	Geremia Dickinson	67y 8m 20d	M	Kellog - Springfield - +39	
	523	Quinlan Coors	6y 10m 19d	M	Derbyshire - Franklin St 12 - +416824999	
	522	Harry Colterson	62y 7m 7d	M	Ottey - Westeman St. 12 - +912314411	MALE WARD
	521	Betta Jamison	10y 10m 1...	F	Kensington - Kinney Rd. 43 - +39	
	520	Rochester Lenny	0y 10m 20d	M	Warengton - Letterman St. 512 - +005199944	
	519	Jeanna Rickember	3y 10m 22d	F	Justin - Lavon Road 62 - +2243143213	
	518	Jeremy Lindon	58y 3m 1d	M	Misurel - Stanton Plaza 151 - +394252422	
	517	Maria Njoko	20y 6m 2d	F	West Kurtika - Mong Road 56 - +2434334	
	516	Genna Susterlind	46y 3m 4d	F	Rudkenny - Geney Road 77 - +3813144111	
	515	Alvaro Robertson	12y 1m 30d	M	Guarinton - Courtney ST. 27 - +39	
	514	Mario Rossi	28y 10m 3d	M	Roma - Via Verdi - +397653431	
	513	Makenzie Everton	27y 9m 29d	M	Albrington - Wayland 21 - +3924534314	
	512	Millman Enriqueta	80y 10m 9d	F	Crossing - Hartney St. 55	
	511	Henderson Alba	53y 10m 9d	F	Street - South Ilford	
	510	Racuba Scottie	42y 10m 9d	F	Valley south - Montgomery road 11 - +12-4354154	

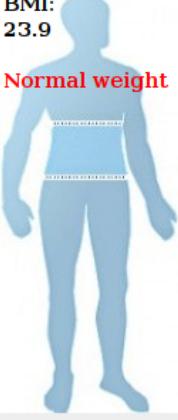
8.5.2 Patient Examination

During a patient examination patient, general parameters such as weight, height, arterial pressure, heart rate, temperature, saturation, respiratory rate, and auscultation can be recorded. Open Hospital calculates the patient's BMI automatically.

There are two ways to access the module. In the **Patient Browser** window, highlight the patient and click **Examination**. Or in the **New Admission** or **Edit Admission Record** window, click the **E xamination** button. The following window is shown:

Patient Examination

BMI:
23.9



Normal weight

Date: 30/05/2022 12:34

(H) Height: cm 171
(W) Weight: kg 69.9

Arterial Pressure: min 80 / 120 max mmHg
 Heart Rate: bpm 60
 Temperature: C 36.0
 Saturation: % 98.0
 HGT: mg/dl 80
 Respiratory Rate: bpm 20
 Diuresis Vol 24H: ml 100
 Diuresis: Oliguria
 Bowel: Diarrheal
 Auscultation: Crackles

Complain

DATE	(H)	(W)	AP	HR	T	O2	HGT	RR	D24H	D	B	AUSC	NOTE
22/11/2020 02:35	171	69.9	80 / 120	60	36.0	98.0	80	-	100	Oliguria	Diarrheal	Crackles	

Save **Delete** **Print** **Close**

The window is divided into two areas: The panel on the left is where new information is entered and the area where the examination history is displayed is on the right.

Enter the following information:

- **Date:** the date of the examination; by default, it is set to the current date and time
- **Height:** the patient's height (in cm)
- **Weight:** the patient's weight (in Kg)
- **Arterial Pressure:** the patient's arterial pressure (in mmHg)
- **Heart rate:** the patient's heart rate (in bpm)
- **Temperature:** the patient's temperature (in °C)
- **Saturation:** the patient's saturation (%)
- **HGT:** the result of the Hemo Glucose test (in mg/dl)
- **Respiratory Rate:** the patient's respiratory rate (in bpm)
- **Diuresis Vol 24H:** the patient's daily urine volume (in ml)
- **Diuresis:** the Diuresis description
- **Bowel:** the description of bowel function
- **Auscultation:** the patient's auscultation. This will default to unknown if not specified. Options are: Unknown, Normal, Bronchial, Crackles, Rhonchi, Stridor, and Wheezes
- **Complain:** any additional notes concerning the examination

After entering the data, Open Hospital automatically calculates the BMI and displays the result on the human figure at the left.

When all the data has been entered, click **Save** to save the examination.

To remove an examination, select one or more records in the lower table and click **Delete** to delete them.

8.5.3 Insert or Modify Surgery Data

To insert/modify operations data of a patient admission, first highlight the patient in the **Patient Browser** window and then press the **Admission** button. The **Edit Admission Record** window is shown.

Operation related data can be inserted or modified directly by selecting the **Operation** tab at the top of the window during the admission or modification process of the admission.

Operations data that can be managed are:

- **Operation:** the operation type
- **Date:** the operation date (must be at least older than, or equal to the admission date and at most, more recent than, or equal to the discharge date)
- **Result:** the result of the operation
- **Trans Unit:** (not mandatory) the number of transfusion units of blood used
- **Remarks:** (not mandatory) comments about the operation

The screenshot shows the 'Edit Admission Record' dialog box. On the left, there's a patient summary with a placeholder profile picture, code 129, name Knupp Eric, age 70 years 0 months 15 days, sex F, and TOB. Below this are sections for Tax Number ID, Address (Main Road 6), City (Nyacara), Parents, Next of Kin (Telephone +05478146), Blood Type, Insurance, Marital Status, Profession, and Patient Notes. The main area has tabs for Admission / Discharge, Operation (which is selected and highlighted in blue), Delivery, and Note. Under the Operation tab, there are fields for Operation (empty), Date (set to 24/06/2022 at 8:27), Result (set to Success), and Trans Unit (empty). At the bottom of this section are Add, Clear, and Delete buttons. Below the tabs is a table with columns DATE, OPERATION DESIGNATION, RESULT, and TRANS UNIT. The table is currently empty. At the very bottom are Save, Examination, and Close buttons.

It is possible to record several operations at once. The buttons **New**, **Save** and **Delete** at the top right of the table allow the manipulation of the items of the table.

To add a new operation, click on the button **New** and enter the data as mentioned above, and then click on **Save**.



Clicking on the button **Save** just adds the operation to the table; it is not yet

permanently recorded.

To delete a line from the table, select the line to delete by clicking on it (it automatically highlights), then click on the button **Delete**. When finished, click on the button **Save** below the table to save the changes.



Operation Type and Operations can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

8.5.4 Insert or Modify Delivery Data

If a female patient is admitted, the Maternity ward will be present in the ward list, and, by selecting it, the **Edit Admission Record** window will change as shown below:

In the Delivery tab, information about the Maternity case can be specified including:

- **Visit Date:** the date of a visit before the delivery, if any
- **Weight:** the weight of the mother before the delivery, if measured
- **Treatment Type:** the treatment type given to the mother, if any
- **Delivery Date:** the date of the delivery
- **Delivery Type:** the type of the delivery
- **Delivery Result Type:** the result of the delivery
- **Control Dates:** the dates of control after the delivery
- **Abort Date:** the date of the abort if the result of the delivery was an abortion



Treatment Type, Delivery Type, and Delivery Result Type can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

8.5.5 Discharge of a Patient (Admission)

To discharge a patient from the hospital, highlight the patient in the **Patient Browser** window and then press the **Admission** button. The **Edit Admission Record** window is shown.

To complete the discharge of the patient, enter the following data:

- **Discharge Date:** the date of the discharge
- **Bed Days:** the number of days admitted. Computed by the system as the difference between the admission date and discharge date
- **Discharge Type:** the type of the discharge
- **Diagnosis OUT:** the diagnosis the patient was discharged with



As in the case of **Diagnosis IN**, it is possible to filter to find diseases more easily.

The screenshot shows the 'Edit Admission Record' window. On the left, there's a summary of the patient's information: Code: 348, Name: Meche Carlosy, Age: 41y 10m 18d, Sex: F, TOB: [redacted], Tax Number ID: [redacted], Address: Lane [redacted] City: Fredericksburg, Parents: [redacted], Next of Kin: [redacted] Telephone: [redacted], Blood Type: [redacted] Insurance: [redacted], Marital Status: [redacted] Profession: [redacted]. On the right, the main form has tabs: 'Admission / Discharge' (selected), 'Operation', 'Delivery', and 'Note'. Under 'Ward', it says MATERNITY WARD. Under 'From Health Unit', there's a field with a placeholder. Under 'Progressive in Year *', it shows 1825. Under 'Admission Date *', the date is 02/11/2020 and time is 1:29. Under 'Admission Type *', it's SELF. There's a checkbox for 'Malnutrition' which is unchecked. Under 'Diagnosis -IN-*', there's a search bar with 'Acute Flaccid Paralysis' and a magnifying glass icon. Under 'Discharge Date', the date is 04/12/2020 and time is 16:58. Under 'Bed Days', the value is 32. Under 'Discharge Type', it's REFERRED. Under 'Diagnosis -OUT-', there are three rows labeled n. 1, n. 2, and n. 3, each with a search bar and a magnifying glass icon. At the bottom, there are buttons for 'Save', 'Examination', and 'Close'. A note at the bottom right says '* Indicates required fields'.



Discharge Types and Diseases can be defined by the Administrator. Ask the Administrator or check the [Settings](#) chapter.

When data entry has been completed, observe that the **Buttons panel** has the following choices:

- **Save:** confirm the values on the window.
- **Examination:** to open the **Examination** window (See [Patient examination](#)).
- **Close:** close the window and return to the **Patient Browser** window without applying any changes.

Once the **Save** button is pressed, the **Edit Admission Record** window closes and the patient's status is changed in the **Patient Browser** window as shown in the following figure:

Patient Browser						
CODE	NAME	AGE	SEX	CITY / ADDRESS / TELEPHONE / NOTE	WARD	
354	Beckmann Kurt	38y 10m 9d	F	Orchard - Rollen Dr. 134 - +0754524245	MATERNITY W...	
353	Ciancio Michale	28y 10m 9d	F	Ilvers - Harvey Pl. 4 - +141434	MATERNITY W...	
352	Dean Jarvis	39y 10m 9d	F	Oak - Royal	MATERNITY W...	
351	Connie Westbrook	28y 10m 9d	F	Mount - Ave.	MATERNITY W...	
350	Martin Deforge	18y 10m 9d	F	Falls - Niagara	MATERNITY W...	
349	Mcguirk Bennett	40y 10m 9d	F	NJ - Elizabeth - +524241412	MATERNITY W...	
348	Carlo Meche	40y 10m 9d	F	Fredericksburg - Lane	MATERNITY W...	
347	Jere Hutcheson	40y 10m 9d	F	NY - Fairport	MATERNITY W...	
346	Kirton Winford	37y 10m 9d	F	Parkville - Dr. 56	MATERNITY W...	
345	Lamore Dylan	19y 10m 9d	F	Wyring - Salem County West - +31431341	MATERNITY W...	
344	Manual Rowse	43y 10m 9d	M	WI - Menasha		
343	Jenks Modesto	0y 10m 9d	F	PA - Waynesboro	CHILDREN WA...	
342	Elliard Hyman	1y 10m 9d	M	VA - Leesburg	CHILDREN WA...	
341	Bryden Keneth	0y 10m 9d	M	Desplains - North Drive 23	CHILDREN WA...	
340	Everart Lindon	20y 10m 9d	M	Lurewon - Opal new		
339	Jack Lupe	42y 10m 9d	M	River town - Fall road		
338	Raul Koski	33y 10m 9d	M	ND - Bismarck		
337	John Emberton	39y 10m 9d	M	Beach - Ormond		
336	Moreles Emery	36y 10m 9d	M	Des Moines - Drive st 66		
335	Provenzano Branden	75y 10m 9d	M	Wartington - Leland st. 56		
334	Starns Kristopher	14y 10m 9d	M	Mass Cambrige - Lowell st 5		

8.6 OPD (OPD)

If the *OPDEXTEDDED* flag is set as YES in the configuration file (ask the Administrator), the button **OPD** in the **Patient Browser** window allows for starting an OPD by selecting the related patient first (see [Create a new patient visit](#) for more information).

8.7 Bill (Bill)

The button **Bill** in the **Patient Browser** window is used to start a bill for a selected patient (see [Insert a new bill](#) for more information).

8.8 Manage Patient Historical Data (Data)

This function allows modifying data about a patient and modifying or deleting the history of admissions and discharges of a patient. Malnutrition can also be managed with this function.

To access the patient historical data function, first highlight the patient in the **Patient Browser** window. Next, press the **Data** button. The **Patient Data** window is shown:

Patient Data

The screenshot shows the 'Patient Data' window. On the left, there is a summary area with fields for Tax Number ID, Address (Fall road N. 782), City (River town), Parents, Next of Kin, Telephone, Blood Type, Insurance, Marital Status, Profession, and Patient Notes. On the right, there is a data table titled 'Patient Data' with columns for DATE, WARD, DIAGNOSIS IN, DIAGNOSIS OUT, and STATUS. Below the table is a tabbed panel with 'Exams', 'Operations', and 'Drugs' tabs, each with a sub-table. At the bottom is a buttons panel with 'OPD Chart', 'Admission Chart', 'Discharge Chart', 'Launch Report', 'DICOM', and 'Close' buttons.

DATE	WARD	DIAGNOSIS IN	DIAGNOSIS OUT	STATUS
02/11/2020	OPD	Malaria	Malaria	New Adm...
25/09/2020	MALE WARD	Gastro-intestinal ...	Gastro-intestinal ...	11/10/2020

The screen is divided into three areas:

- **Patient summary** (on the left)
- **Data table** (on the right)
- **Buttons panel**

The **Patient summary** area shows a summary of the patient's data.

The **Data table** shows a summary of all the outpatients (OPD) visits and all the admissions related to the patient.

The following functions are accessible from the **Buttons panel** of the window **Patient Data**:

- Edit: modify the data of an admission or an outpatient visit.
- Delete: delete an existing admission.
- Malnutrition Control: create, modify or delete malnutrition control data of a patient.
- Close: exit from the function **Patient Data** and return to the **Patient Browser** window.

8.8.1 Modify Data of an Admission (Edit)

To modify the data of an admission, select the admission in the **Data table** of the **Patient Data** window and then press the Edit button. When the **Edit Admission Record** window is shown, the record is available for changes. All data can be changed.

When the changes have been completed, observe that the **Buttons panel** has the following choices:

- **Save**: confirm new values (all the previous values are lost).
- **Examination**: open the ***Examination*** window (See [Patient examination](#)).
- **Close**: close the window and return to the ***Patient Data*** window without applying any changes.

8.8.2 Modify Data of an Outpatient Visit (Edit)

To modify the data of an outpatient visit, select the OPD in the **Data table** of the ***Patient Data*** window and then press the **Edit** button. When the ***Edit OPD Registration*** window is shown, the record is available for changes. All data can be changed.

Edit OPD Registration

(Re-Attendance) (New Attendance) (Referral) (Referred To)

Attendance Date	02/11/2020	15	8:55	+/-	OPD No.	134	Ward	OPD
Search	Jack Lupe							
Disease Type	2. OTHER INFECTIOUS/COMMUNICABLE DISEASES							
Diagnosis	Malaria							
Diagnosis n.2 (full list)								
Diagnosis n.3 (full list)								
Next visit date	16	16	16	Ward				

Patient **Operation**

Patient (code: 339)

First Name	Jack	
Last Name	Lupe	
Address	Fall road N. 782	
City	River town	
Next of Kin		
Age	44y 10m 6d	
Sex	<input checked="" type="radio"/> Male <input type="radio"/> Female	

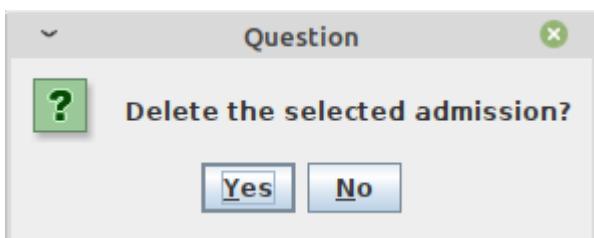
Buttons panel: OK, Examination, Cancel

When the changes have been completed, observe that the **Buttons panel** has the following choices:

- **Save:** confirm new values (all the previous values are lost).
- **Examination:** open the **Examination** window (See [Patient examination](#)).
- **Cancel:** close the window and return to the **Patient Data** window without applying any changes.

8.8.3 Delete an Admission (Delete)

To delete a stored admission, select the admission in the **Patient Data** window. Next, press the **Delete** button. A confirmation window is shown; now the admission can be deleted. Deleted admissions are no longer available.

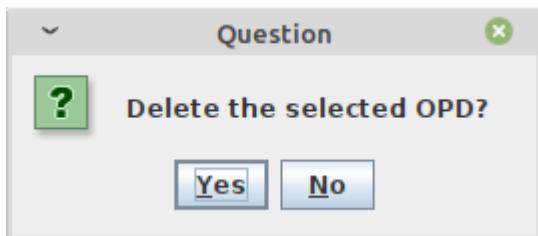


The **Buttons panel** has the following choices:

- **Yes:** confirm the deletion.
- **No:** close the window and return to the previous window.

8.8.4 Delete an Outpatient Visit (Delete)

To delete a stored outpatient visit (OPD), highlight it in the **Patient Data** window. Next, press the **Delete** button. A confirmation window is shown; now the OPD can be deleted. Deleted outpatient visits are no longer available.



The **Buttons panel** has the following choices:

- **Yes**: confirm the deletion.
- **No**: close the window and return to the previous window.

8.8.5 Manage Malnutrition Control of a Patient (Malnutrition Control)

The malnutrition control function is available only for the admissions who have concerns about malnutrition (malnutrition field activated in the **New Admission** window, see the next page).

The Malnutrition control function allows the registration of specified visits for those patients who need to control their weight/height index.

To access the Malnutrition control function, highlight the appropriate admission in the **Patient Data** window. Next, press the **Malnutrition Control** button. The **Malnutrition Browser** window is shown:

Malnutrition Browser

FURTHER DATE	APPROVAL DATE	HEIGHT	WEIGHT
20/01/2013	20/02/2013	170.0	60.0
20/02/2013	20/03/2013	170.0	60.0
20/03/2013	20/04/2013	170.0	61.0

[**New**](#)
[**Edit**](#)
[**Delete**](#)
[**Close**](#)

This function supports the insertion (**New**) of a new malnutrition control, the modification (**Edit**) or deletion (**Delete**) of an existing malnutrition control.

8.8.5.1 Insert a New Control (New)

By pressing the **New** button in the **Malnutrition Browser** window, the **New Malnutrition** window, shown below, is available:



To record a new control, enter the following fields:

- **Date of this control:** the system automatically sets the date to today
- **Date of next control:** the date of the next planned control
- **Weight:** the weight of the patient; use any kind of measure with decimal notation
- **Height:** the height of the patient; use any kind of measure with decimal notation

8.9 Clinical Sheet (Clinical Sheet)

The Clinical Sheet functionality is very similar to the **Data** functionality (see **Patient Browser** window).

To access the Clinical sheet function, highlight the patient in the **Patient Browser** window. Next, press the **Clinical Sheet** button. The **Patient Data** window is shown:

Patient Data

Code: 258
Name: Carmelina Rauch
Age: 7y 11m 6d
Sex: M

DATE	WARD	DIAGNOSIS IN	DIAGNOSIS OUT	STATUS
03/11/2020	OPD	Gastro-intestinal ...	Gastro-intestinal ...	New Admi...
02/11/2020	CHILDREN W...	Malaria	NO DISEASE	present

TOB:

Tax Number ID: _____

Address: Locust Rd. City: Waymo

Parents: _____

Exams

DATE	EXAM	CODE	RESULT
20/11/2020	1.2 WBC Count	299	4000 - 7000 (NORMAL)
20/11/2020	5.5 ZN	300	NEGATIVE
20/11/2020	5.6 WAYSON	301	NEGATIVE
03/11/2020	URINALYSIS	178	Multiple results
03/11/2020	3.1 Blood Slide (Malaria)	206	+++
02/11/2020	3.1 Blood Slide (Malaria)	108	++++
02/11/2020	3.3 STOOL MICROSCOPY	99	Multiple results

Next of Kin: _____ Telephone: +54213434

Blood Type: _____ Insurance: _____

Marital Status: _____ Profession: _____

Patient Notes: _____

Buttons at the bottom: OPD Chart, Admission Chart, Discharge Chart, Launch Report, Imaging, Close.

The window does not allow changing the data, but for the selected patient, it shows all the outpatient (OPD) visits, the Admissions, his/her Laboratory exams and the various surgeries they underwent; by clicking on a row in the **Data table** at the top of the window, the related laboratory exams will be shown as follows:

- the selected row is an Admission: all the exams done between the admission date and the discharge date are shown in the **Data table**, in the **Exams** tab;
- the selected row is an outpatient (OPD) visit: all the exams done after the selected OPD visit until the next one (if any) or next admission date (if any) are shown in the **Data table**, in the **Exams** tab.

The tab **Operations** shows the various operations recorded for the selected patient between the admission date and the discharge date.

The tab **Drugs** shows the drugs recorded for the selected patient.

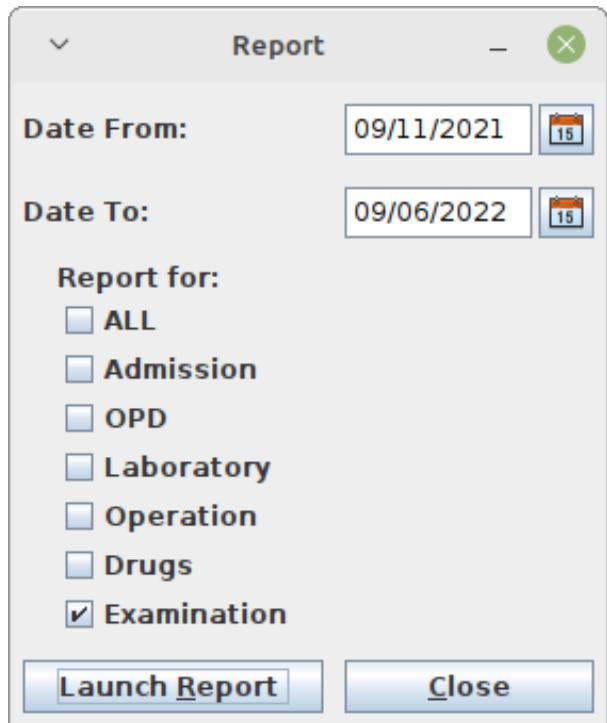
The **Buttons panel** has the following choices:

- **OPD Chart**: print the OPD chart if the selected row in the grid on top is an OPD visit.
- **Admission Chart**: print the Admission chart if the selected row in the grid on top is an Admission.
- **Discharge Chart**: print the Discharge chart if the selected row in the grid on top is an Admission and the patient is already discharged.
- **Launch Report**: print the clinical sheet of a patient.
- **Imaging**: launch the imaging viewer.
- **Close**: close the window and return to the **Patient Browser** window without applying any changes.



The DICOM flag in the configuration file must be changed to activate the imaging functionality. Ask the Administrator or refer to the *Administrator's Guide*.

By pressing the **Launch Report** button in the **Patient Data** window, a new window is shown:



The application is set to get the entire history of the patient, but this can be changed by querying different date ranges and a specific set of information.

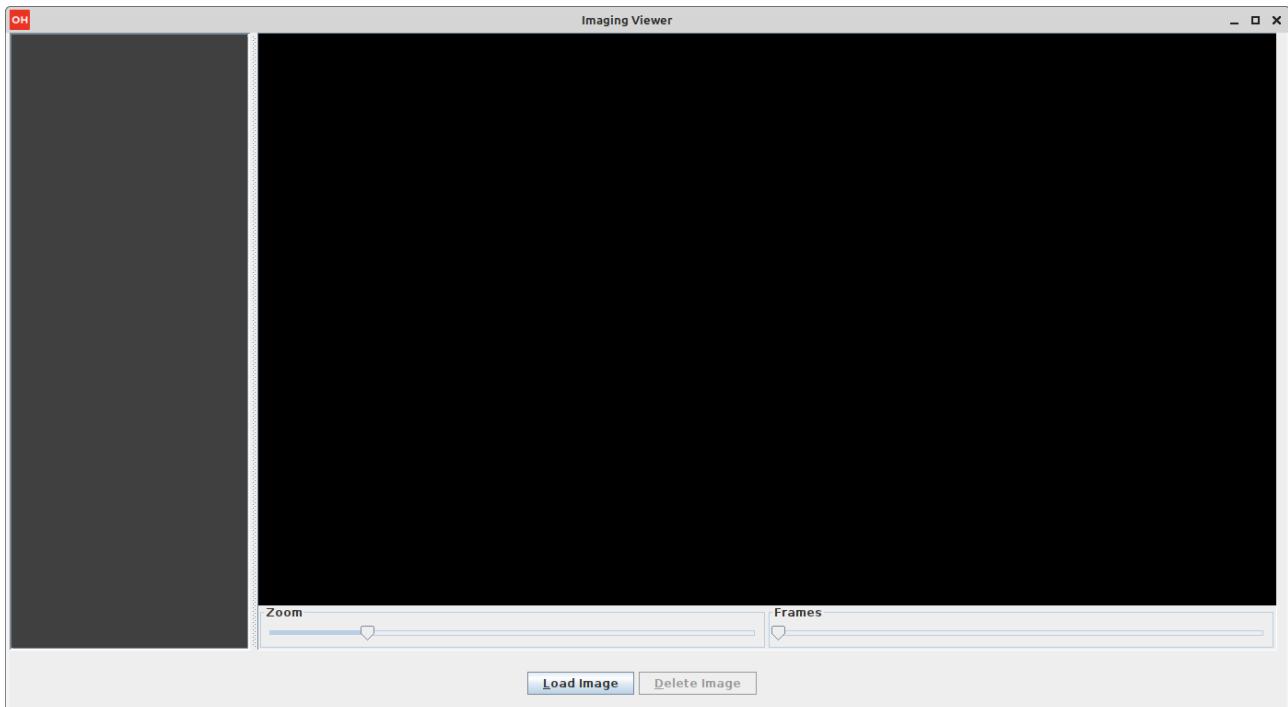


it is possible to double-click an item on any table to automatically restrict the Clinical Sheet report to the selected date ranges and item's category.

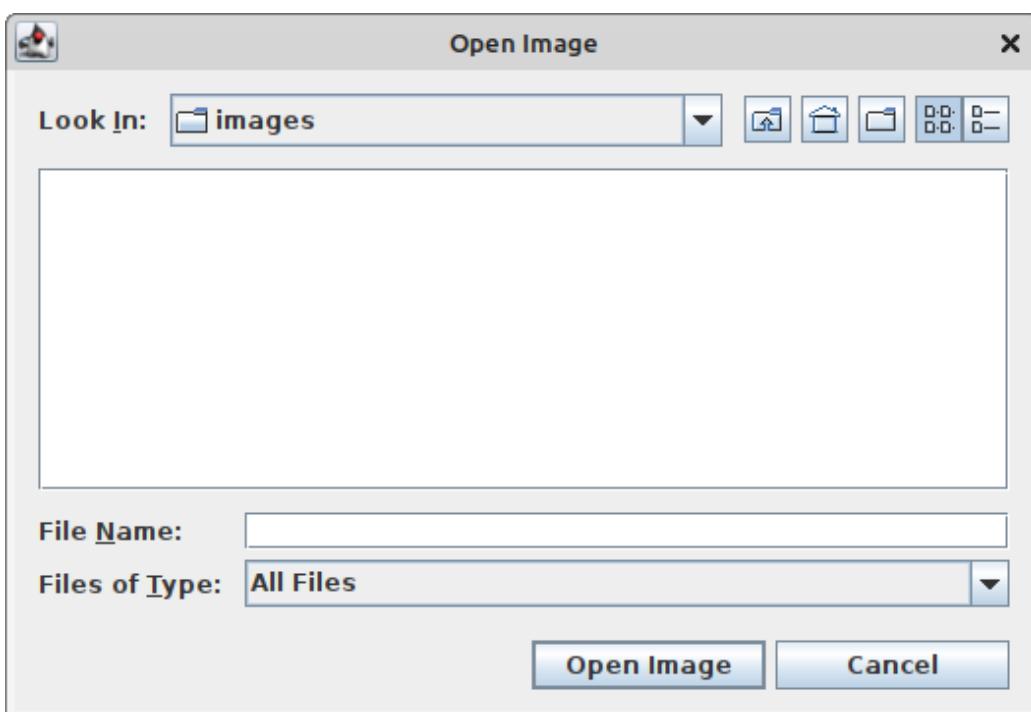
8.9.1 Imaging (Imaging)

The DICOM flag in the configuration file must be changed to activate the imaging functionality. Ask the Administrator or refer to the *Administrator's Guide*.

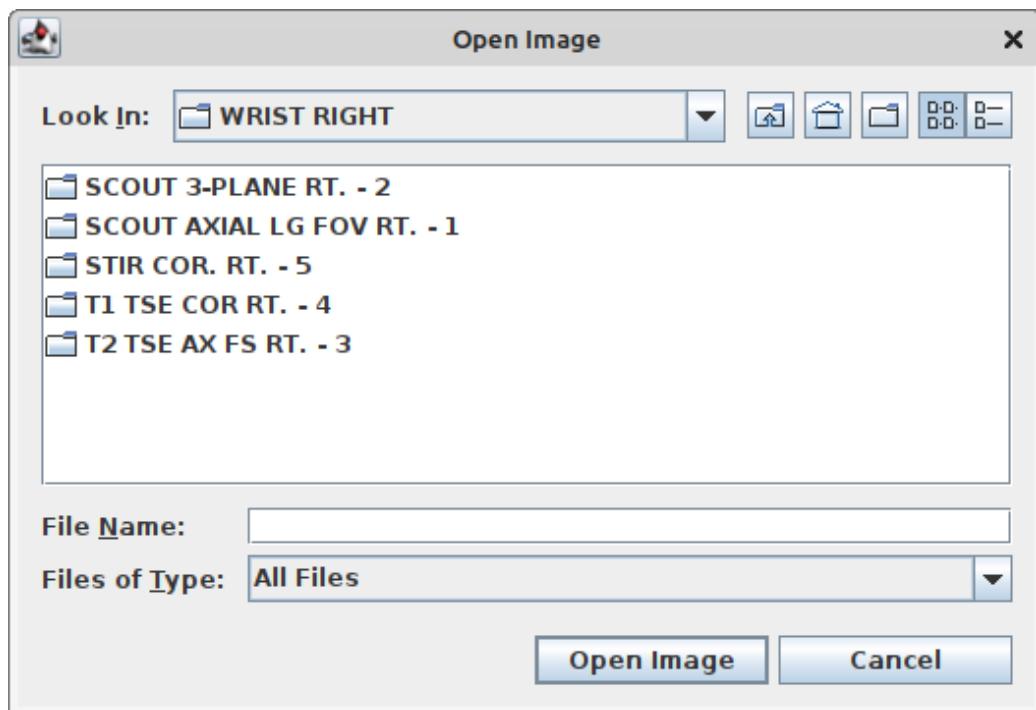
In the **Patient Data** window, click the **Imaging** button to access the **Imaging Viewer** window as shown below.



This module allows attaching image files to the patient's folder. To do this, click the **Load Image** button. The following window is shown:



In the case of a multi-frame image, the whole folder can be selected:



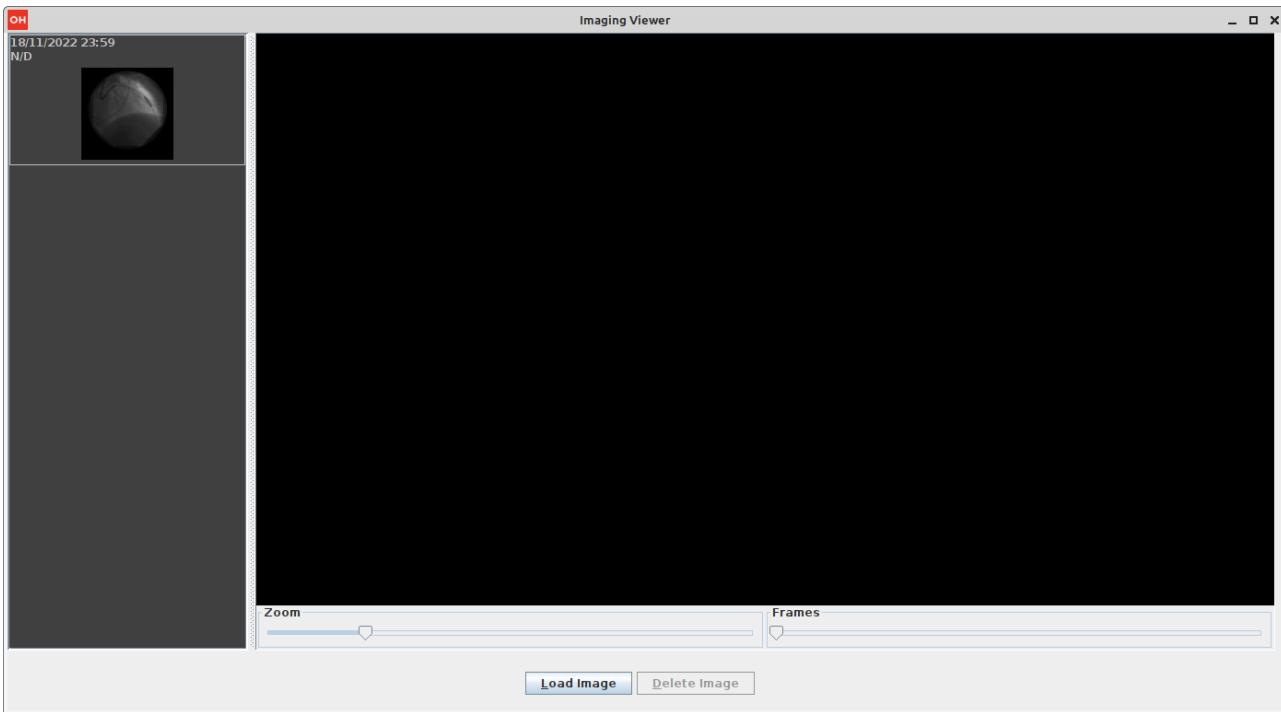
Next, the following data to be used for the image is prompted for (or the multi-frame image series):

- **Date:** the system will propose the current date or other dates provided by the image file itself
- **Category:** optionally select an image category (see [Imaging Types](#)):
- **Description:** the description to be used.

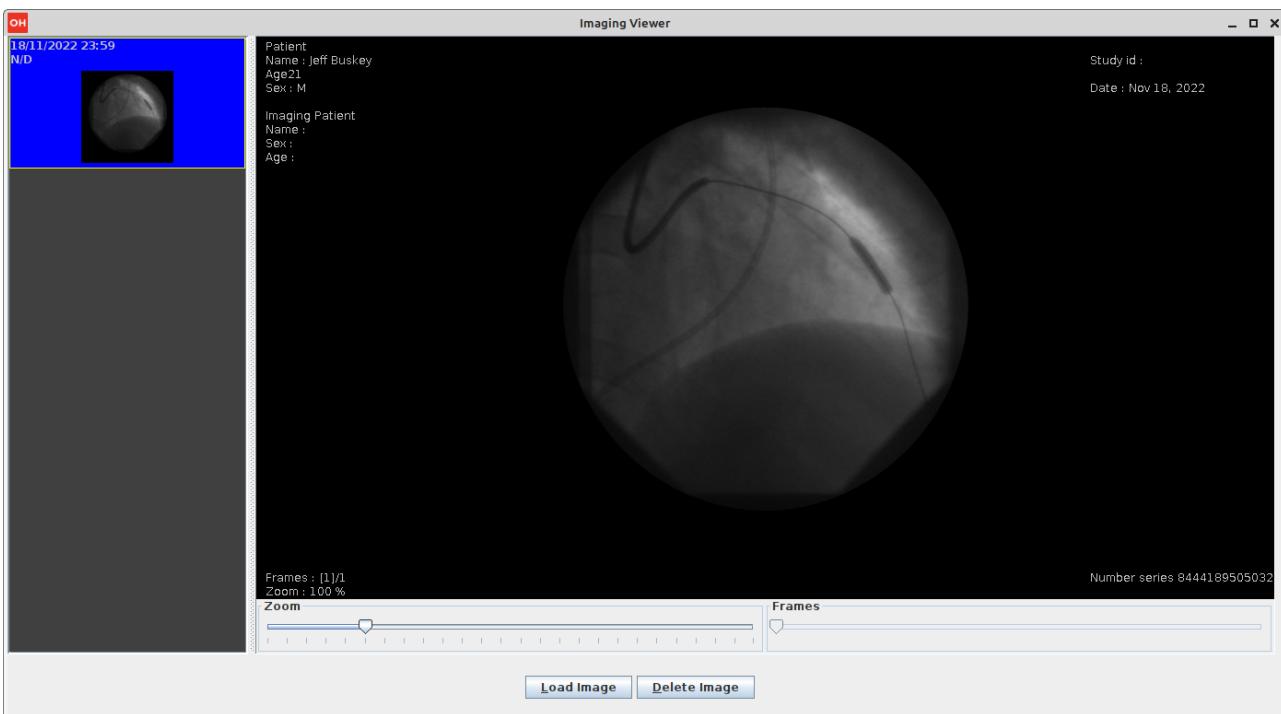


N.B. There is no **Edit Image**, so if a mistake is made, delete the image file (**Delete Image**) and then reload it (**Load Image**) again.

Find the image file and click the **Open Image** button to load the file into the **Imaging viewer**.



To view the file in the main window, double-click on it.



The **Zoom** slider can be used to Zoom in or out of the image.

More than one image file can be loaded into a patient folder. It is possible to delete an image file from the patient's folder. First, select the file in the left view and then click the **Delete Image** button.

The thumbnails on the left can be hidden by changing the *DICOMTHUMBNAILS* flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

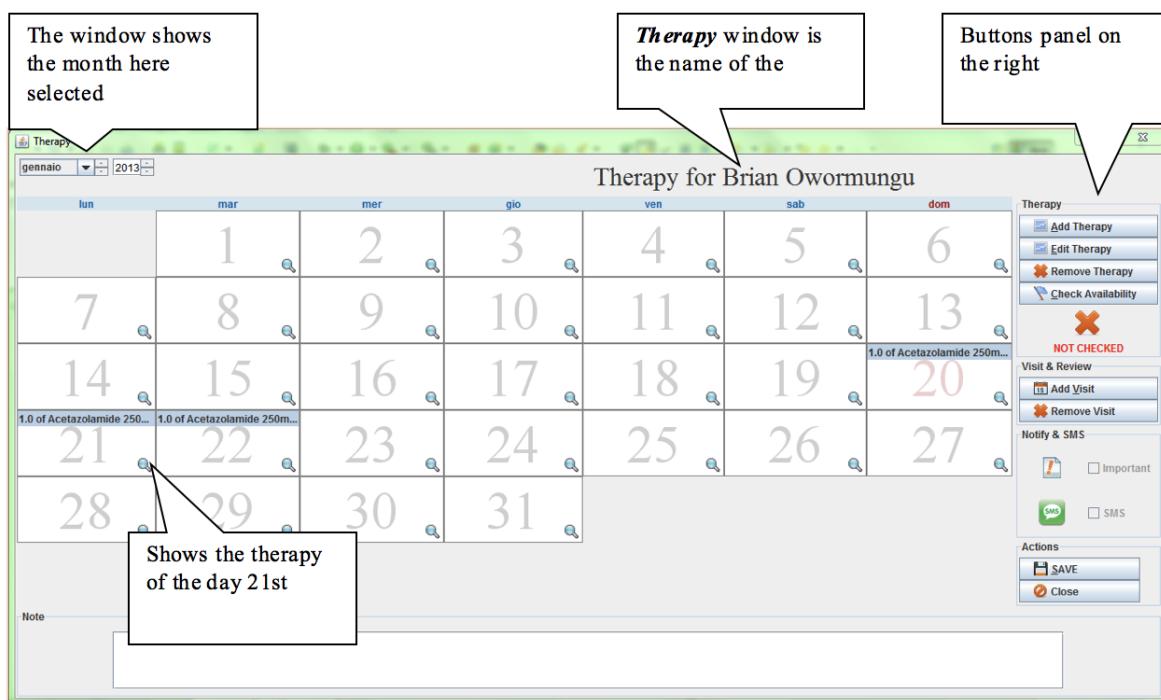
8.10 Therapy Management (Therapy)

To manage the therapy of a patient, select the patient in the **Patient Browser** window. Next, press the **Therapy** button. The specific window for therapy management of the selected patient is shown. The window has no name, but it is typically referred to as the **Therapy** window. The name of the selected patient is shown at the top.

In the **Therapy** window, it is possible to insert, modify or remove a therapy for the selected patient.

In addition, from the **Therapy** window, it is possible to insert or remove (not modify) scheduled visits for the selected patient.

The window is complex, see the comments below to understand the structure.



8.10.1 Add a Therapy (Add Therapy)

To add a new therapy for the patient, press the **Add Therapy** button on the right of the window. The **New Therapy Entry Form** window is shown.

A therapy defines for every pharmaceutical: the quantity, frequency, and period of use.

More than one therapy for the same patient can be added. The set of therapies defined for a patient is called a “Therapy plan”.



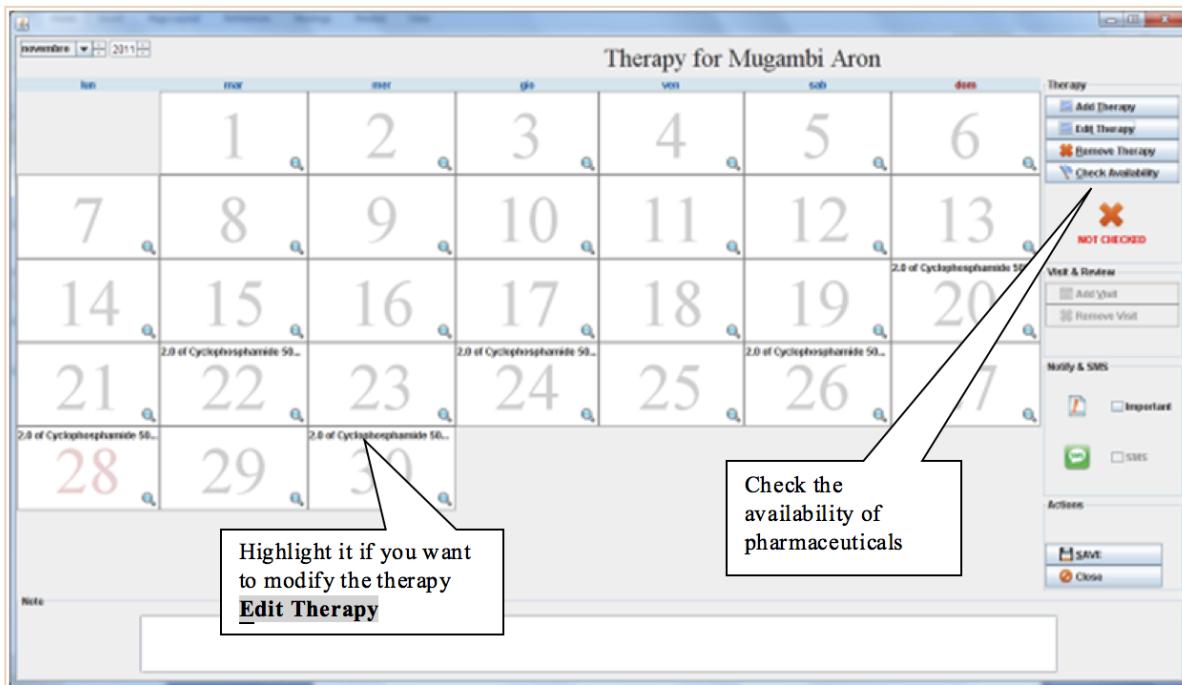
To better explain how the function **Add a therapy** works, the **Therapy** window below shows the results of the therapy defined in the **New Therapy Entry Form** shown above.

To add a therapy, the following information is required:

- **Pharmaceutical:** the pharmaceutical of the therapy; in the example above, this is *Cyclophosphamide 500mg* (highlight the desired pharmaceutical)
- **Quantity:** set the quantity; this can be done by clicking on the small up/down arrows (for small quantities) or moving the cursor on the right (for large quantities); in the example above, the selected value is “4”
- **Frequency within day:** set how many times (frequency) the dose has to be given during one day (possible choices are: one, two, three, four); in the example above, “One” means once per day
- **Frequency within period:** set the periodicity of the therapy; in the example above, this is every two days (a quantity of 4 *Cyclophosphamide 500mg* every two days has to be given)
- **Period:** set the length of therapy. To do this, select days, weeks, and months; in the example above, the therapy is 11 days long (4 days and 1 week)
- **Starts – Ends:** set start and end dates of the therapy; in the example, the therapy starts on November 20th and finishes on November 30th
- **Note:** an optional area for free text or notes

When data entry has been completed, observe that the **Buttons panel** has the following choices:

- **OK:** confirm the data of the therapy. The therapy is not saved until it is confirmed with the **Save** button in the **Therapy** window (see the **Save function** described below).
- **Cancel:** close the window and return to the **Therapy** window.



8.10.2 Modify a Therapy (Edit Therapy)

To modify a therapy, highlight one occurrence of the therapy (see box above) in the **Therapy** window and then press the **Edit Therapy** button. The **Edit Therapy Entry Form** window will appear. Any of the data can be modified as in the **Add a therapy** function.

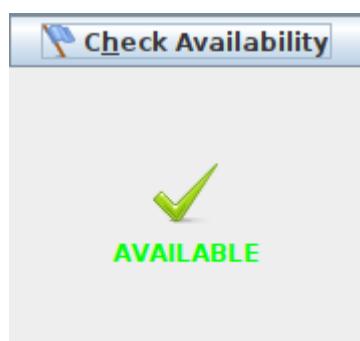
See [Add a therapy](#) function for a detailed description.

8.10.3 Remove a Therapy (Remove Therapy)

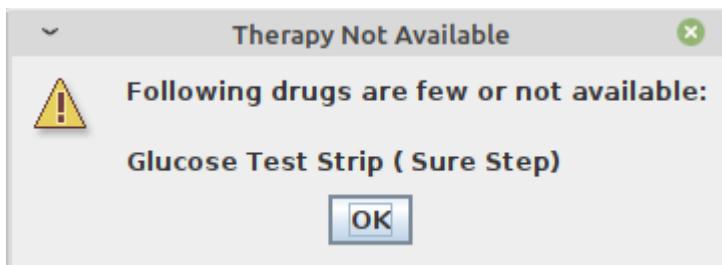
To remove a therapy, highlight one occurrence of the therapy (see box above) in the **Therapy** window and then press the **Remove Therapy** button and the therapy is removed from the window and the **Save** button will be enabled (if not already enabled). The removal of a therapy is not effective until it is confirmed with the **Save** button (see [Save function](#)).

8.10.4 Check Availability of the Pharmaceuticals (Check Availability)

When the therapy plan is entered (all the therapies of a patient), press the **Check Availability** button in the **Buttons panel** on the right side of the **Therapy** window to check the availability of the related pharmaceuticals in the hospital. If the pharmaceutical checked is present in the quantity requested by the therapy plan, a green-colored checkmark is shown.



If insufficient quantities are available, the application shows the small window (shown below), called ***Therapy Not Available***:



This window provides information that the therapy is not available, but it does not block the input of the Therapy plan. Click the OK button to dismiss the window.

After the check, in the **Buttons panel** of the ***Therapy*** window if there is a red X and the text “NOT AVAILABLE” this means that at least one of the involved drugs is not available.

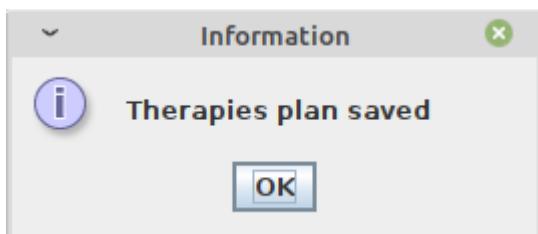


The check can also be done therapy by therapy and not only at the end of the input of all the therapies.

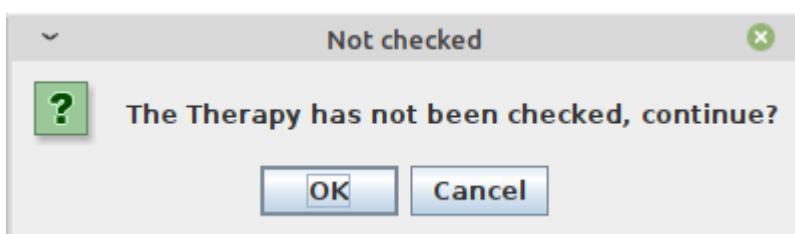
The check function is not mandatory, the therapy plan can be saved without checking the presence of the pharmaceuticals in the hospital (see [Save function](#) below).

8.10.5 Save Function ([Save](#))

When the input of the therapy plan is completed, press the **Save** button in the **Buttons panel** of the ***Therapy*** window. Be aware that the therapy plan is saved when the ***Message*** window is shown:



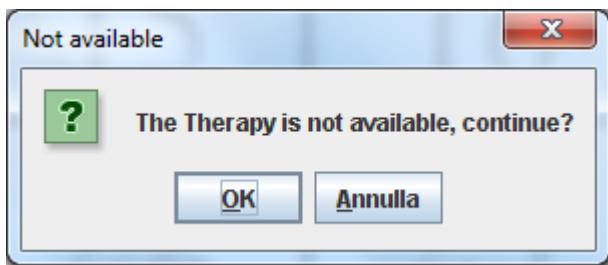
If the availability check has not been executed yet (see [Check availability of the pharmaceuticals](#)), the ***Not checked*** window is shown:



The **Buttons panel** has the following choices:

- **OK**: confirm the therapy plan; if the check for the existence of the pharmaceuticals in the hospital has not been done the application saves the therapy plan and shows the confirmation window shown above.
- **Cancel**: return to the ***Therapy*** window without saving the therapy plan.

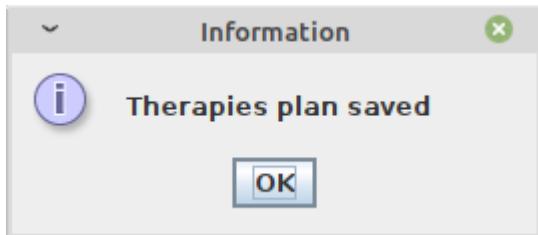
If the availability check is done (see [Check availability of the pharmaceuticals](#)), but the drugs requested by the therapy plan are not available in the hospital, the ***Not Available*** window is shown:



The **Buttons panel** has the following choices:

- **OK**: confirm the therapy plan; the therapy is saved, but the requested pharmaceuticals are not in the hospital. The application saves the therapy plan and shows the confirmation window, shown below.
- **Cancel**: return to the ***Therapy*** window without saving the therapy plan.

Whether or not the availability check that the pharmaceuticals are present in the hospital is done, when the application shows the notification window below, the therapies plan is saved.

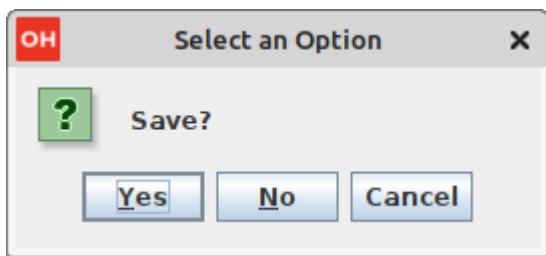


Press **OK** to finish.

8.10.6 Close Function (Close)

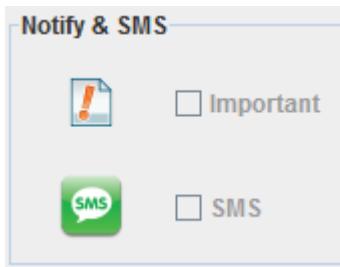
The close function exits from the ***Therapy*** window. Press the **Close** button to access the Close function. The ***Select an Option*** window is shown:

The **Buttons panel** has the following choices:



- **Yes**: this function is the same as the **Save function (Save)** described above.
- **No**: return to the ***Therapy*** window without saving the therapy plan.
- **Cancel**: exit the function and return to the ***Therapy*** window without applying any changes.

8.10.7 Notify & SMS



Use these two checkboxes to set the therapies plan for this patient as important (*not implemented yet*) and notifiable via SMS.

Briefly, the SMS notification works in the following way:

- therapies: a notification will be sent to the patient with an SMS at 8:00 am, with the text “REMINDER: “ + **therapy details**;
- visits: a notification will be sent to the patient with an SMS 24 hours before the scheduled date and time, with the text “REMINDER VISIT: “ + **visit details** (see [SMS Manager](#)).

8.10.8 Visits

By clicking on the **Add Visit** button, the following window is shown:

A screenshot of a "Add Visit" dialog box. It includes fields for "Ward" (set to "CHILDREN WARD"), "Service" (empty), "Duration (Min)" (set to "10"), and "Date" (set to "27/06/2022 8:50"). A sub-dialog "Please Select a Patient" is open, showing "Crooks Amos" in a list and a "Change Patient" button. At the bottom are "OK" and "Cancel" buttons.

The patient is already selected, while other fields need to be set:

- Ward:** to specify the ward where the patient has to be received (it will be shown in the Worksheet, see [Worksheet](#))
- Service:** a brief description of the service that will be provided to the patient (optional)
- Duration (Min):** the estimated duration of the service that will be provided (optional, default is 30 minutes)
- Date:** the date and the time for the appointment

Press **OK** to save the appointment and it will be shown in the calendar, along with the therapies.

The screenshot shows a software interface for managing patient therapy sessions. At the top, it says "Therapy" and "Therapy for Crooks Amos". Below is a monthly calendar for September 2021. The days of the week are labeled from Sunday to Saturday. Specific dates are highlighted in red, likely indicating booked therapy sessions. To the right of the calendar is a sidebar with various buttons and status indicators. The "Check Availability" button is highlighted with a green checkmark. Other buttons include "Add Therapy", "Edit Therapy", "Remove Therapy", "Visit & Review", "Notify & SMS", and "Actions" with "Save" and "Close" options.



By pressing the **Worksheet** button, a visit can also be added there, after checking the actual workload for a specific date.

8.10.8.1 Appointments rules

A patient appointment/visit is valid if it does not overlap with:

- other appointments within the same ward
- an existing appointment for the same patient in a different ward

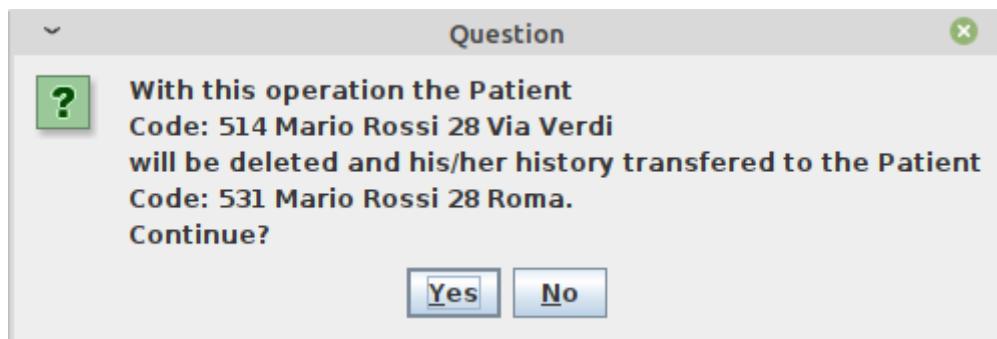
8.11 Merge Function (Merge)

The merge function is used to merge two patients' histories into a single case. This is used to fix the case of two different registrations when a patient is admitted to the Hospital.

Merging data of two patients requires highlighting both of them in the **Patient Browser** window.

Patient Browser						
Admission Status	CODE	NAME	AGE	SEX	CITY / ADDRESS / TELEPHONE / NOTE	WARD
All	531	Mario Rossi	28y 9m 18d	M	Via Verdi - Roma	
Ward	529	Sara Hocklington	0y 8m 20d	F	Kulele - Long Road 1 - +39	
<input checked="" type="checkbox"/> CHILDREN WARD	528	Kenty Willis	14y 6m 3d	F	Jlkney - Furja Street 81 - +3914413	
<input checked="" type="checkbox"/> FEMALE WARD	527	Marcus Kellop	52y 9m 10d	M	Mirly - Fullister Pl. 45/b - +396153134	
<input checked="" type="checkbox"/> MALE WARD	526	Genina Justerin	36y 5m 13d	F	Urabe - Ghoulam Rd 231 - +393452432	
<input checked="" type="checkbox"/> MATERNITY WARD	525	Mary Garrington	0y 7m 0d	F	Kendring - Ganston - +39	
Count: 478	524	Geremina Dickinson	67y 8m 3d	M	Kellog - Springfield - +39	
	523	Quinian Coors	6y 10m 2d	M	Derbyshire - Franlkin St 12 - +416824999	
	522	Harry Colterson	62y 6m 21d	M	Ottee - Westeman St. 12 - +912314411	
	521	Betta Jamison	10y 10m 1d	F	Kensington - Kinney Rd. 43 - +39	MALE WARD
	520	Rochester Lenny	0y 10m 3d	M	Warengton - Letterman St 512 - +005199944	
	519	Jeanna Rickember	3y 10m 5d	F	Justin - Lavon Road 62 - +2243143213	
	518	Jeremy Lindon	58y 2m 15d	M	Misurel - Stenton Plaza 151 - +394252422	
	517	Maria Njoko	20y 5m 16d	F	West Kurtika - Mongi Road 56 - +2434334	
	516	Genna Susterlind	46y 2m 18d	F	Rudkenny - Genev Road 77 - +3813144111	
	515	Alvaro Robertson	12y 1m 13d	M	Guarinten - Courtney ST. 27 - +39	
	514	Mario Rossi	28y 9m 17d	M	Roma - Via Verdi - +397653431	
	513	Makenzie Everton	27y 9m 12d	M	Albrington - Wayland 21 - +3924534314	
	512	Millman Enriqueta	80y 9m 23d	F	Crossing - Hartney St. 55	
	511	Henderson Alba	53y 9m 23d	F	Street - South Ilford	
	510	Racuba Scottie	42y 9m 23d	F	Valley south - Montgomery road 11 - +12-43541\54	
	509	Ventier Asia	32y 9m 23d	F	Roadinsky - Flamingo 45	
	508	De Koening Melissa	50y 9m 23d	F	Furklo - Merriam plaza	
	507	Westermann Fred	21y 9m 23d	M	Bilbao - Avenida johanes 84	

Once the two patients are selected, press the **Merge** button. The **Merge** window is shown:



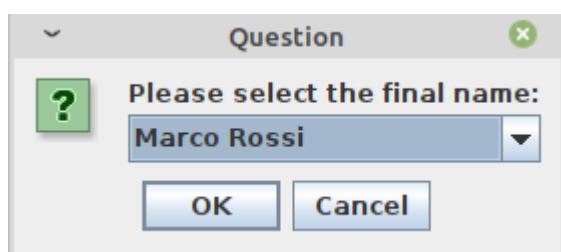
By pressing Yes, the patient with the smaller code is deleted and all their history is transferred to the other newer patient record, that is to say:

- Admission History
- Height & Weight History
- Laboratory History
- OPD History
- Bills History
- Pharmaceuticals Stock Ward History
- Therapy History
- Visit History
- Vaccine History

The other (older) patient is then deleted.

8.11.1 Different Names

If two patients with different names are merged, the final name must be chosen in the window, shown below:



8.11.2 Different Sex

If two patients with a different sex are merged, the operation is not allowed, with the window shown below:

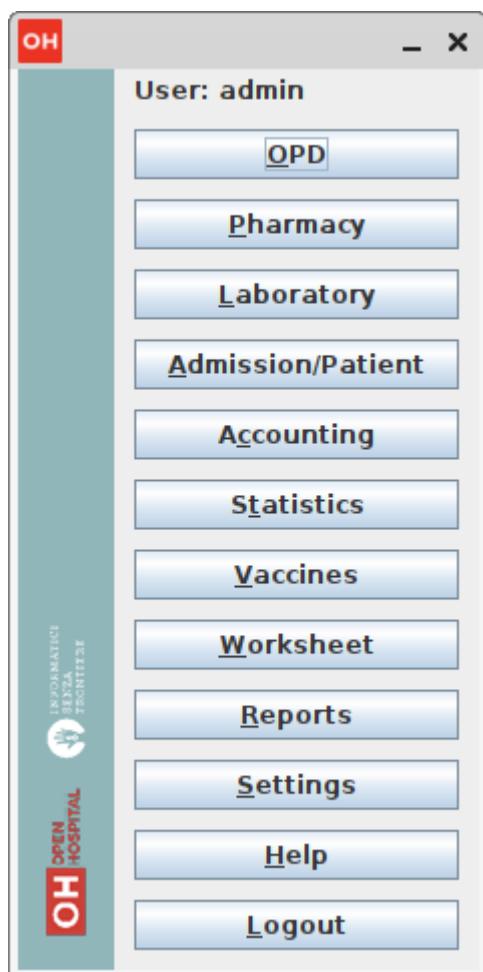


9 Statistics (Statistics)

9.1 Main Characteristics

The purpose of this function is to extract data registered in the application and present it in a useful fashion.

Click with the mouse on the button or press "Alt + T" to enter the Statistics Report Launcher



Open Hospital provides a set of reports designed for the Ugandan Ministry of Health (HMIS) and for the Kenyan Ministry of Health (MOH) as well as national independent reports (OH). All of these reports may be useful for any organization and can be added or removed as explained in the Administrator Manual's chapter “6 – Reports”.

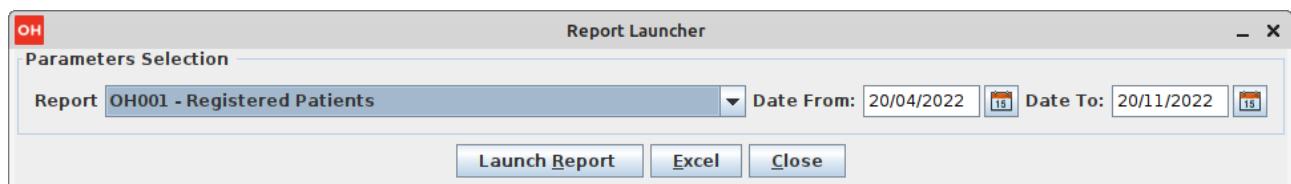
Open Hospital ships with the following set of reports:

- OH001 - Registered patients
- OH002 - Registered patients by origin
- OH003 - Registered patients by Age and Sex
- OH004 - All incomes by price codes
- OH005 - Count outpatient
- OH006 - Count outpatient diagnosis

- OH007 - Lab monthly basic
- OH008 - Lab summary for OPD
- OH009 – InPatient Report
- OH010 – OutPatient Report
- OH011A - Revenues, Incomes & Receivables (All)
- OH011B - Revenues, Incomes & Receivables (Pending)
- OH011C - Revenues, Incomes & Receivables (Month)
- OH011D - Revenues, Incomes & Receivables (Ward / Month)
- HMIS 108 - page 1 - 1. census info
- HMIS 108 - page 1 - 2. referrals
- HMIS 108 - page 1 - 3. operations
- HMIS 108 - In Patient (diagnosis In)
- HMIS 108 - In Patient (diagnosis Out)
- HMIS 105 - Opd attendance
- HMIS 105 - Opd referrals
- HMIS 105 - Opd by diagnosis
- HMIS 55b - Lab monthly formatted
- HMIS 33b - Weekly epidemiological surveillance
- HMIS 33b - Weekly epidemiological surveillance over 5 years old
- HMIS 33b - Weekly epidemiological surveillance under 5 years old
- MOH 717 - Monthly Workload Report for Hospitals (Page1)
- MOH 717 - Monthly Workload Report for Hospitals (Page2)
- MOH 705A - Under 5 - Daily Outpatient Morbidity Summary Sheet
- MOH 705A - Over 5 - Daily Outpatient Morbidity Summary Sheet
- OH23A1 - Open bills list: a report that shows the list of opened bills (pending bills) per period
- OH23B1 - Revenues, Incomes & Receivables: gives the list of incomes per period

9.2 Report Launcher (Launch Report)

This function is used to produce all reports listed in the previous paragraph. Pressing the **Statistics** button on the main menu the **Report Launcher** window is shown:



To produce one report:

- Select a report from the list
- Specify the period (it could be *month-year* or *from date-to date* depending on the report)
- Press the **Launch Report** button for PDF or **Excel** for CSV (Comma Separated Values) format

After some time passes, the JasperViewer® will show the generated report as follows:

The screenshot shows a JasperViewer window with a blue header bar containing the title "Registered Patients". Below the header, there is a logo for "OH Open Hospital" featuring a globe icon. The main content area contains the hospital's name, address, email, and phone number. A section titled "novembre" lists daily patient counts, followed by a "TOTAL" row.

01 giovedì	253
02 venerdì	174
03 sabato	66
04 domenica	66
05 lunedì	287
06 martedì	251
07 mercoledì	241
08 giovedì	225
09 venerdì	163
10 sabato	65
11 domenica	66
12 lunedì	318
13 martedì	237
14 mercoledì	223
15 giovedì	1
TOTAL	2636

i By default, an internal PDF viewer is used. An external PDF reader can be used by modifying the INTERNALVIEWER flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

The report can be saved as a PDF by clicking on the save button (PDF) or printing it by clicking on the print button (PRINT).

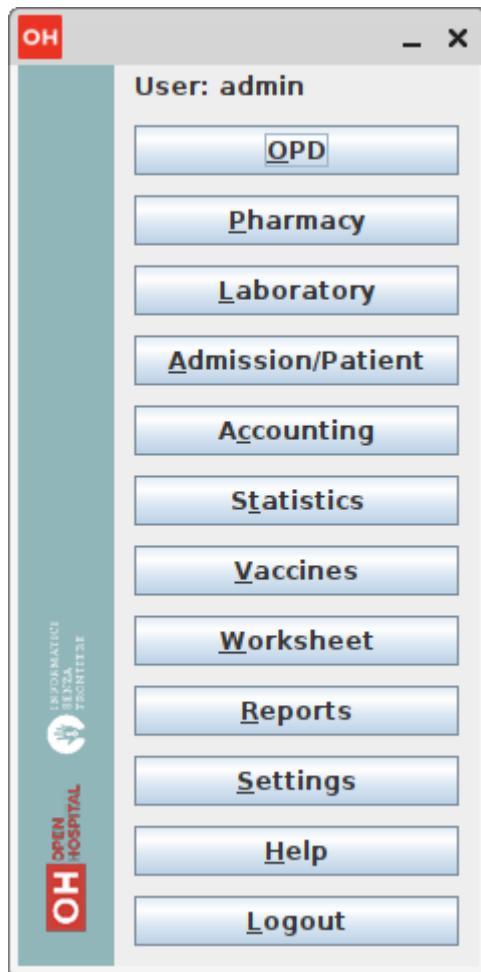
i A PDF copy of every report is always saved within the folders of Open Hospital. Ask the Administrator or refer to the *Administrator's Guide*.

10 Reports (Reports)

10.1 Main Characteristics

This function is used to generate reports about the hospital like a list of exams, diseases, etc.

*Click with the mouse on the button or press "Alt + R" to enter the **Reports** submenu*

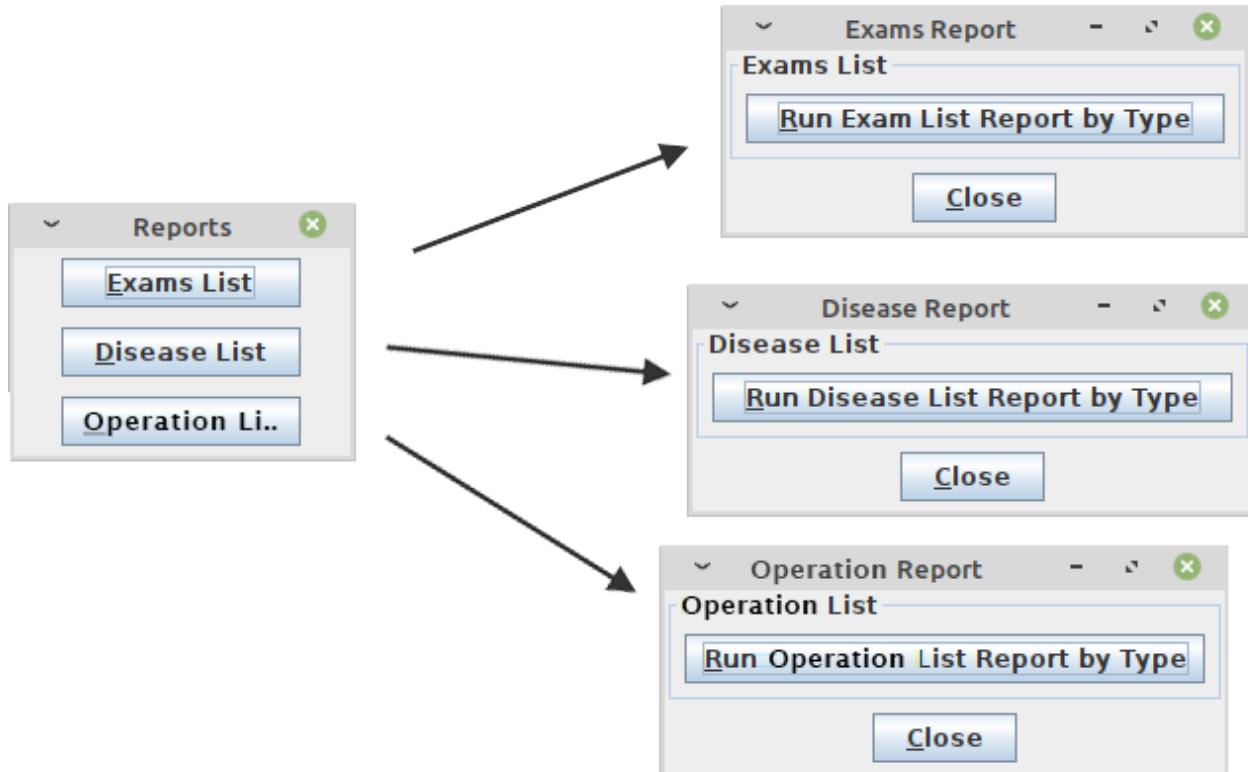


Open Hospital currently only has these three reports:

- Exams List
- Diseases List
- Operations List

10.2 Reports

By pressing **Reports** from the main menu, the **Reports** menu is accessed. From this menu, the following types of reports are available: **Exams List**, **Disease List** and **Operation List**.



10.2.1 Exams List (Exams List)

This report is a list of exams, divided by types, as defined by the Administrator.

10.2.2 Disease List (Disease List)

This report is a list of diseases, divided by types, as defined by the Administrator.

10.2.3 Operation List (Operation List)

This report is a list of operations, divided by types, as defined by the Administrator.

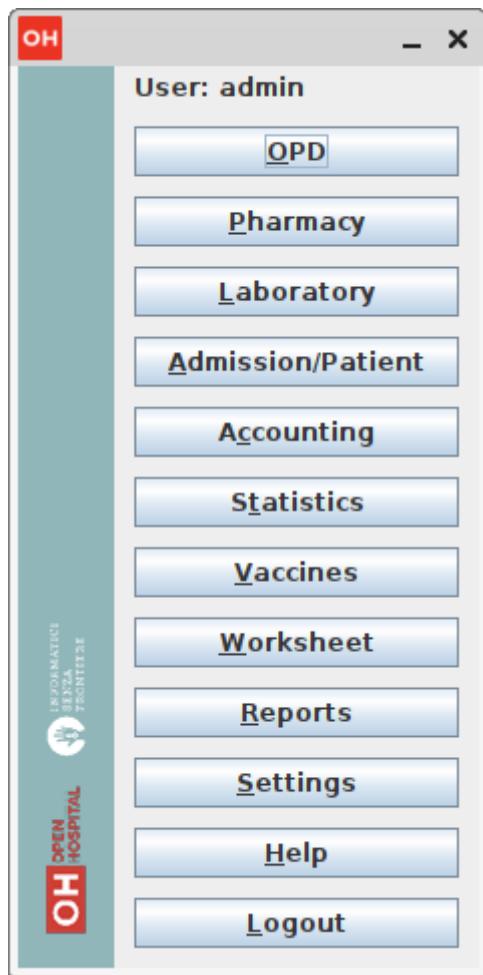
11 Communication (Communication)

11.1 Main Characteristics

The Communication module can be enabled by changing the `XMPPMODULEENABLED` flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

Through the communication module events and notifications can be shared among users logged into the system,

Click with the mouse on the button or press "Alt + M" to enter the Communication window.



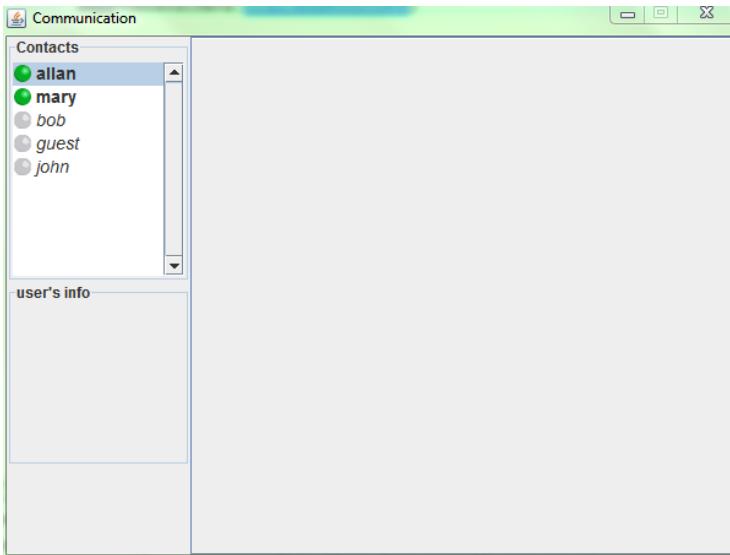
This function is used to chat and share information with other users logged in the system if in turn the application has been set in multi-user mode and an XMPP Server is active and running (Ask the Administrator or refer to the *Administrator's Guide*).

The functionality allows the following tasks:

- Chat
- Admissions notifications
- Pharmaceutical Stock critical levels notifications
- Report sharing

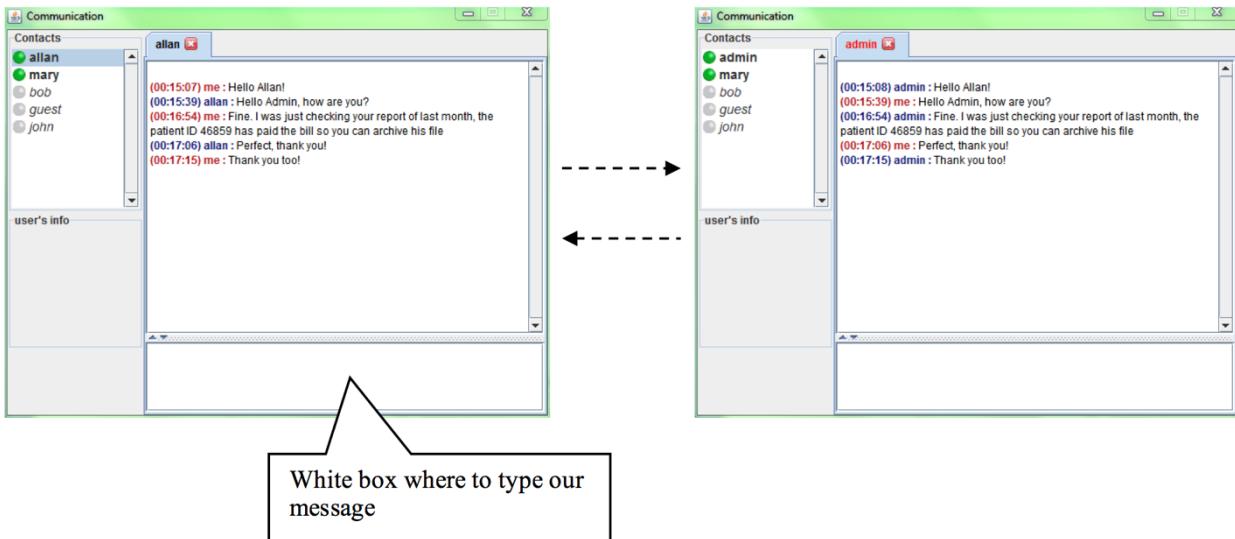
11.2 Chat

By pressing the **Communication**, the **Communication** window is shown:



It shows all users logged into the system. Some of them have a green circle near their name: it means that they are currently logged in the system and they are the only ones that can be interacted with. Others have the grey circle near their name: it means that they logged in at least one time in the past but are not currently using the system.

By double-clicking on an active user (i.e. Allan in the figure above), a chat session can be started, as shown in the figures below:



To send a message to Allan, type the message into the white box at the bottom and then press “ENTER”; the message is immediately sent to Allan; when Allan does the same, his response is immediately received. Other users logged in (i.e. Mary in the figures above) cannot see this private conversation.

11.3 Admission/Discharge Notifications

In the **New Admission** window, in the **Buttons panel** there is a dropdown box, as shown below:

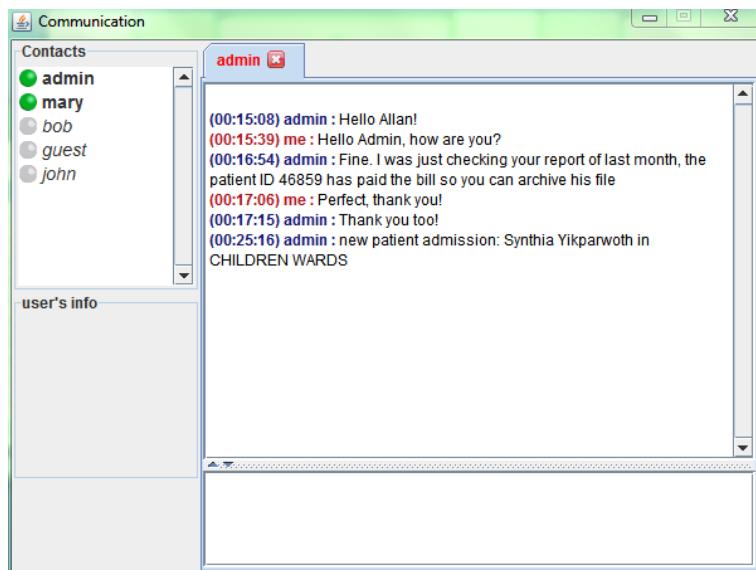
The screenshot shows the 'New Admission' window. On the left, there's a patient profile section with a placeholder image, code 297, name Drake Synthia, age 21y 3m 20d, sex M, and TOB 0-. Below this are sections for Tax Number ID, Address (Gorny boul. 21), City (Wellington), Parents, Next of Kin (Telephone +542241), Blood Type (O-), Marital Status (Single), and Profession. On the right, the 'Admission / Discharge' tab is selected, showing fields for Ward (MALE WARD), From Health Unit, Progressive in Year (0), Admission Date (21/01/2013, 8:19), Admission Type (AMBULANCE), Diagnosis -IN (Acute Flaccid Paralysis), Discharge Date, Bed Days, Discharge Type, and Diagnosis -OUT (n. 1, n. 2, n. 3). At the bottom, there are Save, Examination, Close, and Share alert buttons.

The box lists all users currently logged into the system (those with the green circle near the name) and allows them to send an alert or not (nobody) when the **Save** button is pressed.

11.3.1 Admission Notifications

If the decision is to send a notification about a new admission for user Allan, when the **Save** button is pressed, Allan sees in his **Communication** window a message like “new patient admission:” followed by the patient’s name and the related ward.

An example of the Allan **Communication** window is shown below:

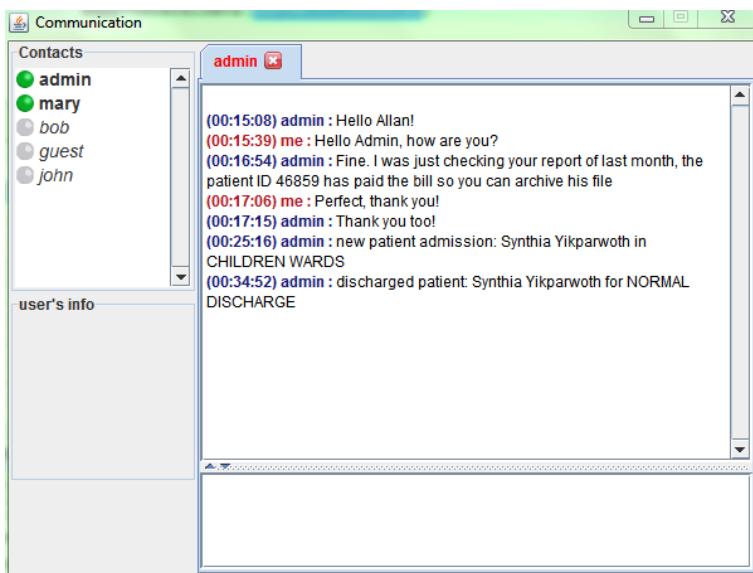


11.3.2 Discharge Notifications

Similarly, notifications can be sent for discharge events. If the decision is to send a notification about a discharge to user Allan when the **Save** button is pressed, Allan sees in his **Communication**

window a message like “discharged patient:” followed by the patient’s name and the related Discharge Type.

An example of the Allan **Communication** window is shown below:



11.4 Pharmaceuticals Critical Level Notifications

In the **Stock Movement** window, there is a new box at the bottom, as shown below:

A screenshot of the Stock Movement window. The top section includes fields for Date (08/09/2022), Reference No., Discharge Type (Discharge), and Destination (MATERNITY WARD). Below this is a table showing a pharmaceutical entry:

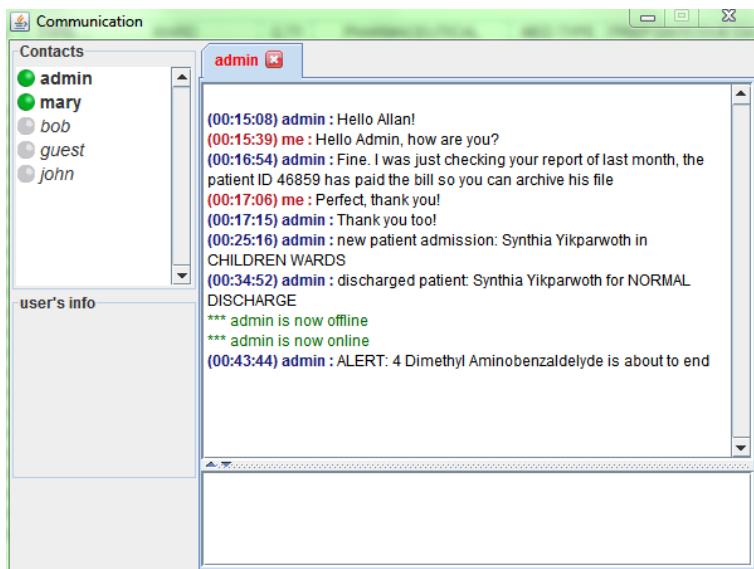
Type a code or a description and press ENTER							
CODE	DESCRIPTION	UNIT/PACK	QTY	UNIT/PACK	TOTAL	LOT NO.	EXPIRING
415	Paracetamol 500 MG	1	69000	Units	69000	-4111916415...	30/03/2025

At the bottom are buttons: Delete, Save, Cancel, and a dropdown for sharing alerts.

The box becomes active and useful only if the movement is going to reduce the selected pharmaceutical below the critical level. Given such an occurrence the event can be shared with another user logged into the system at the given time when the OK button is pressed.

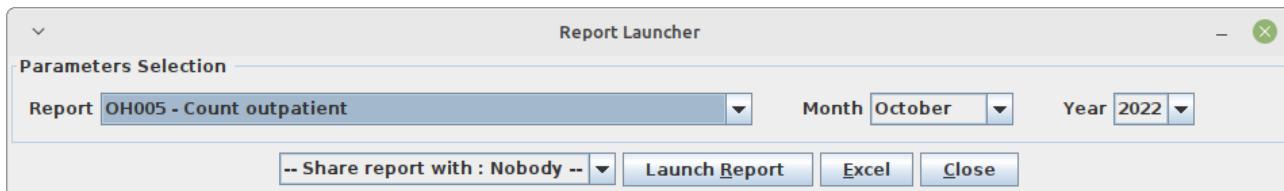
Assuming such a notification about this discharging movement is to be shared with user Allan when the OK button is pressed, Allan receives in his **Communication** window a message like

“ALERT:” followed by the pharmaceutical name and the text “is about to end” as shown below:



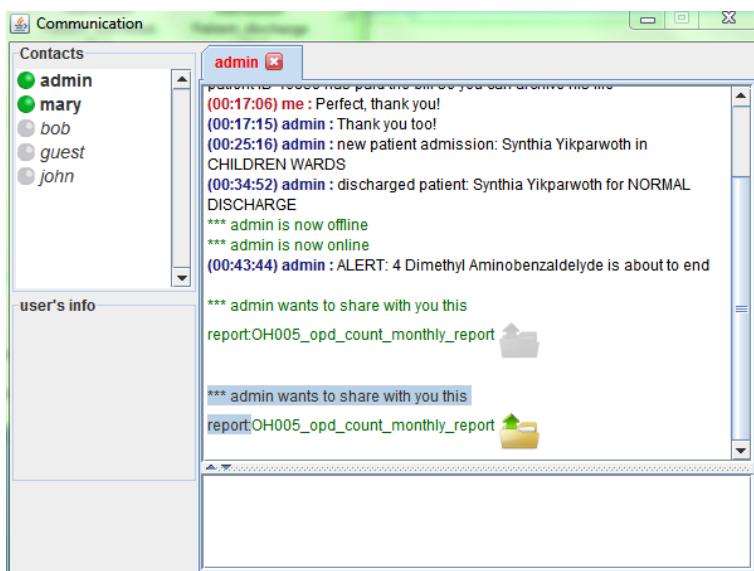
11.5 Report Sharing

In the **Report Launcher** window, there is a new box at the bottom, as shown below:



This allows for the decision to share a new report with another user logged into the system when the **Launch Report** button is pressed.

Assuming such a notification about this report is to be shared with user Allan when the **Launch Report** button is pressed, Allan sees in his **Communication** window a message like “** admin wants to share with you this report:” followed by the report name and a clickable icon that links Allan to the related report. An example of this message is shown below:



12 Settings (Settings)

12.1 Main Characteristics

Setup and customization of Open Hospital can be performed through the **Settings** functionality. This feature allows the configuration of all “types” and “data” used in the current Open Hospital implementation.

*Submenu: Press the **Settings** button or “Alt + S” to open the Settings submenu.*



Pressing the **Settings** button main menu provides access to the **Settings** menu. From the **Settings** menu, the following functions are available:

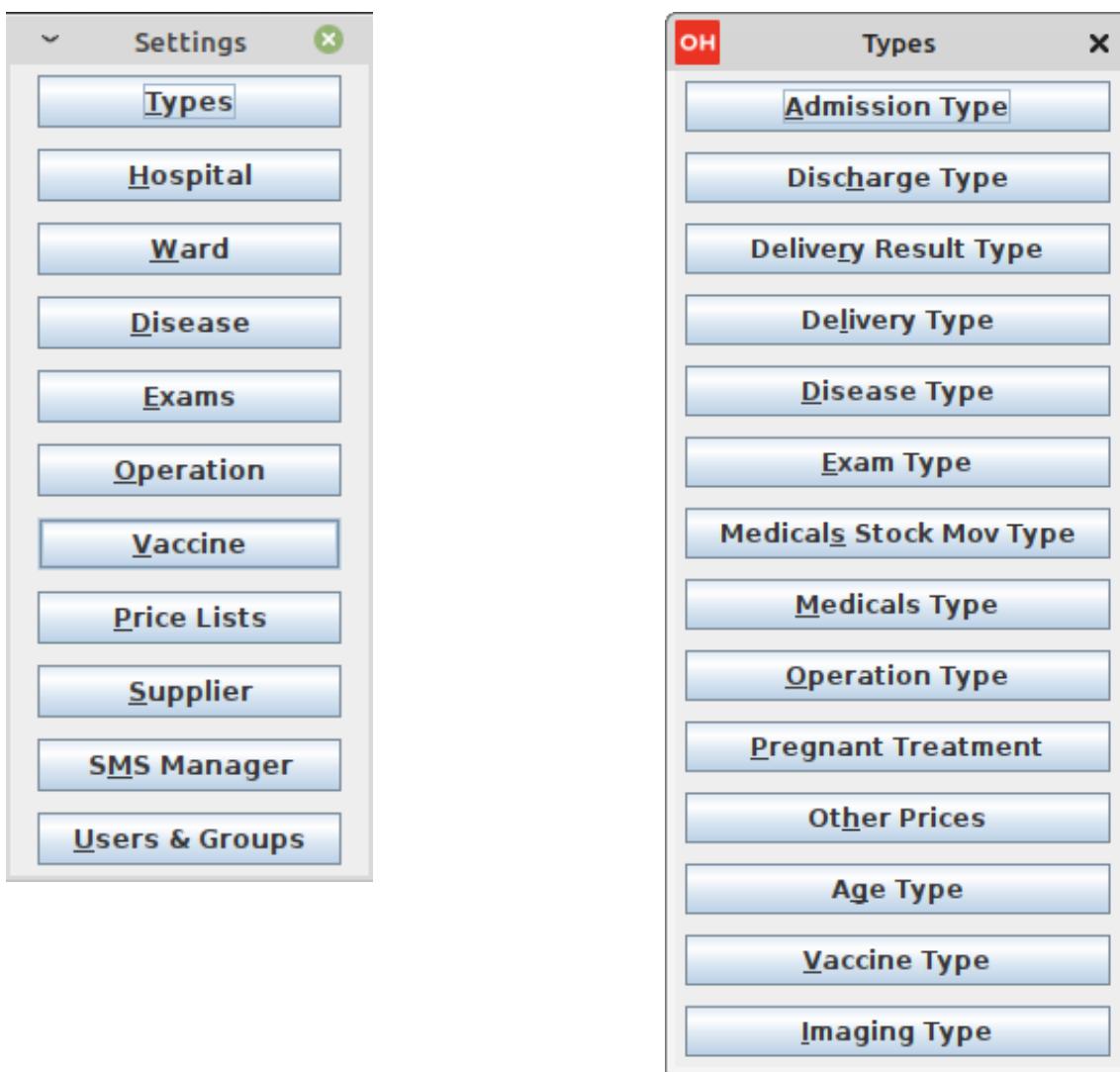
- **Types:** define and manage the various *types* listed in the menu
- **Hospital:** set some Hospital information (name, address, telephone, email, etc.)
- **Ward:** define which departments are in the hospital
- **Disease:** define which diseases are diagnosed in the hospital
- **Exams:** define which laboratory exams are performed in the hospital
- **Operation:** define which surgical operations are provided by the hospital
- **Vaccine:** define which vaccines are given in the hospital
- **Prices lists:** define unitary costs of the services provided by the hospital

- **Supplier:** manage medicals suppliers
- **SMS Manager:** send an SMS or schedule an SMS sending
- **Users & Groups:** manage information about various users and groups

12.2 Types (**Types**)

Once the **Types** button is pressed in the **Settings** menu, the **Types** menu is presented:

*Settings Menu: Press the **Types** button or “Alt + T” to open the Types Menu*



From the **Types** menu, the definition and management of the following types of functions are possible:

- **Admission Type:** the way the patient is admitted to the hospital
i.e. Ambulance, Self, Referral, etc.
- **Discharge Type:** the way the patient is discharged from the hospital
i.e. Healed, Unchanged, Dead, etc.
- **Delivery Result Type:** the various childbirth results for reporting
i.e. Live Birth, Newborn Death, Fresh Still Birth, etc.
- **Delivery Type:** the ways the mothers are assisted in childbirth

i.e. Normal Delivery, Caesarean Section, etc.

- **Disease Type:** the way similar diseases are grouped
i.e. Epidemic, Maternal, etc.
- **Exam Type:** the way similar laboratory exams are grouped+ *i.e. Haematology, Parasitology, Serology, etc.*
- **Medicals Stock Mov Type:** the kind of movements, meant as charge or discharge, that are performed in the Medical Store
i.e. Charge, Discharge, Donation, Correction, etc.
- **Medicals Type:** the way similar pharmaceuticals are grouped
i.e. Drugs, Chemical, Laboratory, etc.
- **Operation Type:** the way similar surgical operations are grouped
i.e. Abdominal, Obstetrical, Orthopaedic, etc.
- **Pregnant Treatment:** the treatments provided to expectant mothers
i.e. First dose with SP, Second dose with SP, etc.
- **Other Prices:** extra services the hospital provides (it will be reflected in Prices lists)
i.e. Admission Fee, Food, POP, etc.
- **Age Type:** the age classifications used by the hospital
i.e. Newborn, Childhood, Adult, Elderly, etc.
- **Vaccine Type:** the way similar vaccines are grouped
i.e. Child, Adult, Pregnant, etc.
- **Imaging Type:** the way similar imaging types are grouped
i.e. X-Ray, CT-Scan, NMR, etc.

12.2.1 Admission Types (**Admission Type**)

Once the **Admission Type** button in the **Types** menu is pressed, the **Admission Type Browser** window is shown:

Admission Type Browser	
CODE	DESCRIPTION
A	AMBULANCE
R	REFERRAL
I	SELF

[**New**](#)
[**Edit**](#)
[**Delete**](#)
[**Close**](#)

The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if it is still used somewhere in the application).
- **Close**: close the window.

The Admission Types defined are used in the Admission function (see [Start the admission of a patient](#) and [Discharge of a patient](#) in this document).

12.2.2 Discharge Types (Discharge Type)

Once the **Discharge Type** button in the **Types** menu is pressed, the **Discharge Type Browser** window is shown:

CODE	DESCRIPTION
D	DEAD
ES	ESCAPE
EQ	NORMAL DISCHARGE
B	REFERRED

[**New**](#)
[**Edit**](#)
[**Delete**](#)
[**Close**](#)

The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

The Discharge Types defined are used in the Admission function (see [Start the admission of a patient](#) and [Discharge of a patient](#) in this document).

12.2.3 Delivery Result Types (**Delivery Result Type**)

Once the **Delivery Result Type** button in the **Types** is pressed, the **Delivery Result Type Browser** window is shown:

CODE	DESCRIPTION
S	FRESH STILL BIRTH
A	LIVE BIRTH
B	MASTERATED STILL BIRTH
M	MATERNAL DEATH
N	NEWBORN DEATH

[**New**](#)
[**Edit**](#)
[**Delete**](#)
[**Close**](#)

The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

The Delivery Result Types defined are used in the Admission function (see [Insert or Modify Delivery data](#) in this document).

12.2.4 Delivery Types (**Delivery Type**)

Once the **Delivery Type** button in the **Types** menu is pressed, the **Delivery Type Browser** window is shown:

CODE	DESCRIPTION
C	DELIVERY ASSISTED BY CESARIAN SECTION
N	NORMAL DELIVERY
V	DELIVERY ASSISTED BY VACUUM EXTRACTION

[New](#)
[Edit](#)
[Delete](#)
[Close](#)

The functions available in this window (similar to other windows in the **Types** menu) are:

- New: enter a new type (cannot use an existing code).
- Edit: edit an existing type (the code cannot be changed).
- Delete: delete an existing type (cannot be deleted if still used somewhere in the application).
- Close: close the window.

The Delivery Types defined are used in the Admission function (see [Insert or Modify Delivery data](#) in this document).

12.2.5 Disease Types (**Disease Type**)

Once the **Disease Type** button in the **Types** menu is pressed, the **Disease Type Browser** window is shown:

CODE	DESCRIPTION
ND	1.NOTIFIABLE DISEASES
OC	2.OTHER INFECTIOUS/COMMUNICABLE DISEA...
MP	3.MATERNAL AND PERINATAL DISEASES
NC	4.NON-COMMUNICABLE DISEASES
AO	5. All Other

[New](#) [Edit](#) [Delete](#) [Close](#)

The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

The Disease Types defined are used throughout the application (for example, in the definition of Diseases or in OPD - see [Disease](#) and [Create a new patient visit](#) in this document).

12.2.6 Exam Types ([Exam Type](#))

Once the **Exam Type** button in the **Types** menu is pressed, the **Exam Type Browser** window is shown:

CODE	DESCRIPTION
HB	1.Haematology
BT	2.Blood transfusion
PA	3.Parasitology
BA	4.Bacteriology
MC	5.Microscopy
SE	6. Serology
CH	7. Chemistry
OC	8.Occult Blood
OL	OLD EXAMS
OT	OTHER
SP	STOOLPARASITES
UR	URINALYSIS

New **Edit** **Delete** **Close**

The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

The Exam Types defined are used in the Laboratory function (see [Laboratory](#) in this document).

12.2.7 Medicals Stock Movement Types (**Medicals Stock Mov Type**)

Once the **Medicals Stock Mov Type** button in the **Types** menu is pressed, the **Medicals Stock Movement Types Browser** window is shown:

CODE	DESCRIPTION	TYPE
charge	Charge	+
discharge	Discharge	-

New **Edit** **Delete** **Close**

The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

By pressing the **New** button, the *New Medical Stock Movement Type* window is shown:

New Medical Stock Movement Type

Code (max 10 chars):	<input type="text"/>
Description:	<input type="text"/>
Type:	<input type="text"/> +
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

The allowed types are “+” and “-“ and this means that any kind of movements is either a charging (+) or a discharging (-) of the stock.

Examples are:

- Positive correction (+)

- Negative correction (-)
- Donation (+)
- Lost (-)
- ...

The Medical Stock Movement Types defined are used in the Pharmaceutical Stock function (see [Insert Stock Discharging Movement](#) in this document).

12.2.8 Medicals Types (Medicals Type)

Once the Medicals Type button in the *Types* menu is pressed, the *Medical Type Browser* window is shown:

Medical Type Browser	
CODE	DESCRIPTION
K	Chemical
D	Drugs
L	Laboratory
S	Surgery

<u>New</u>	<u>Edit</u>	<u>Delete</u>	<u>Close</u>
------------	-------------	---------------	--------------

The functions available in this window (similar to other windows in the *Types* menu) are:

- New: enter a new type (cannot use an existing code).
- Edit: edit an existing type (the code cannot be changed).
- Delete: delete an existing type (cannot be deleted if still used somewhere in the application).
- Close: close the window.

The Medical Types defined are used throughout the application (for example, in the Pharmacy function and Pharmaceutical Stock Ward - see [Insert a new pharmaceutical](#) and [Search Ward Pharmacy movements](#) in this document).

12.2.9 Operation Types (Operation Type)

Once the **Operation Type** button in the **Types** menu is pressed, the **Operation Type Browser** window is shown:

CODE	DESCRIPTION
AG	ABDOMINAL GENERAL SURGERY
GY	GYNECOLOGICAL
MG	MALE GENITOR-URINARY SYSTEM
OB	OBSTETRICAL
OR	ORTHOPEDICAL
OS	OTHERS: SKIN AND SUBCUTANEOUS

New **Edit** **Delete** **Close**

The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

The Operation Types defined are used in the Admission function (see [Insert or Modify Surgery Data](#) in this document).

12.2.10 Pregnant Treatment Types (Pregnant Treatment Type)

Once the **Pregnant Treatment** button in the **Types** menu is pressed, the **Pregnant Treatment Type Browser** window is shown:

CODE	DESCRIPTION
A	ANC RE-ATTENDANCE
S1	FIRST DOSE WITH SP
I1	IMMUNISATION 1
I2	IMMUNISATION 2
I3	IMMUNISATION 3
N	NEW ANC ATTENDANCE
S2	SECOND DOSE WITH SP

[**New**](#)
[**Edit**](#)
[**Delete**](#)
[**Close**](#)

The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

The Pregnant Treatment Types defined are used in the Admission function (see [Insert or Modify Delivery data](#) in this document).

12.2.11 Other Prices (Other Prices)

Once the **Other Prices** button in the **Types** menu is pressed, the **Other Prices Browser** window is shown:

CODE	DESCRIPTION	OPD	IPD	DAILY	DISCHARGE	UNDEFINED
OTH001	Amount per d...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

New **Edit** **Delete** **Close**

The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new price (cannot use an existing code).
- **Edit**: edit an existing price (the code can be changed).
- **Delete**: delete an existing price (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

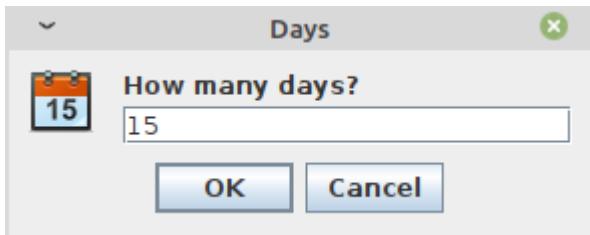
To create a new price, press the **New** button, and the **New Price** window is shown:

New Price

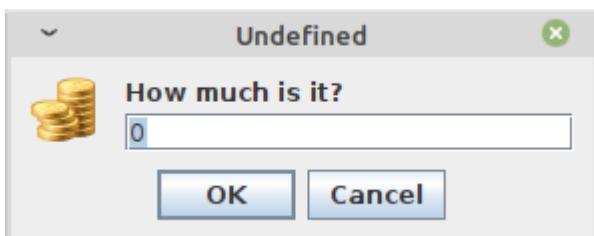
Code:	OTH
Description:	
<input checked="" type="checkbox"/> OPD <input checked="" type="checkbox"/> IPD <input type="checkbox"/> Daily <input type="checkbox"/> Discharge <input type="checkbox"/> Undefined	
OK Cancel	

To insert a new price, provide the following data:

- **Code**: the price code and which should be unique; there are no restrictions on this field since the application uses an internal code to uniquely identify the item
- **Description**: the price description that may include the code for a faster search
- **OPD**: if the price is applicable with OPD (not yet implemented)
- **IPD**: if the price is applicable with IPD (not yet implemented)
- **Daily**: if the price should be applied for every bed-day (not yet implemented) or just once; if checked, provide a value for “How many days?” when using this item while managing a patient’s bill; see the following **Days** window:



- **Discharge:** if the item must be treated as a negative value to act as a discharge in the billing statement (i.e., Charge-Off, Free-of-charge, etc.).
- **Undefined:** if the item has no value in the Price List and the amount was set as “on the fly” while editing a bill; if checked, a value for “How much is it?” in the following *Undefined* window must be provided:



The Other Prices defined are used in the Accounting and Price List functions (see [Insert a new bill](#) and [Prices](#) in this document).

12.2.12 Age Types (Age Type)

Once the **Age Type** button in the **Types** menu is pressed, the *Age Type Browser* window is shown:

Age Type Browser			
d0	0	0	Newborn
d1	1	5	Early Childhood
d2	6	12	Late Childhood
d3	13	24	Adolescent
d4	25	59	Adult
d5	60	99	Elderly

Edit **Close**

Note that age ranges are fixed and only the Administrator can change their values to best fit the health normative in the country.

By pressing the **Edit** button, the table allows modification of the age values and the button changes to **Save**.

Age Type Browser			
d0	0	0	Newborn
d1	1	5	Early Childhood
d2	6	12	Late Childhood
d3	13	24	Adolescent
d4	25	59	Adult
d5	60	99	Elderly

Save **Close**

By double-clicking on each value, the value is changed by typing a new value. Then pressing the **Save** button, the new information is stored in the system.

Only integer values are allowed; also, every range must be **contiguous** and may not **overlap** any previous or following value.

For example, in the following case, the ranges *Late Childhood* and *Adolescent* are not **contiguous** and ages 14 and 15 are not defined in any range:

Age Type Browser			
d0	0	0	Newborn
d1	1	5	Early Childhood
d2	6	13	Late Childhood
d3	16	24	Adolescent
d4	25	59	Adult
d5	60	99	Elderly

Save **Close**

In the following example, the ranges *Late Childhood* and *Adolescent* **overlap** since both start with age 6:

Age Type Browser			
d0	0	0	Newborn
d1	1	5	Early Childhood
d2	6	13	Late Childhood
d3	6	24	Adolescent
d4	25	59	Adult
d5	60	99	Elderly

Save **Close**

The Age Types defined are used in the Patient Extended functionality (see [Insert a new Patient Extended](#) in this document).

12.2.13 Vaccine Types (**Vaccine Type**)

Once the **Vaccine Type** button in the **Types** menu is pressed, the **Vaccine Type Browser** window is shown:

CODE	DESCRIPTION
C	Child
N	No pregnant
P	Pregnant

[New](#)
 [Edit](#)
 [Delete](#)
 [Close](#)

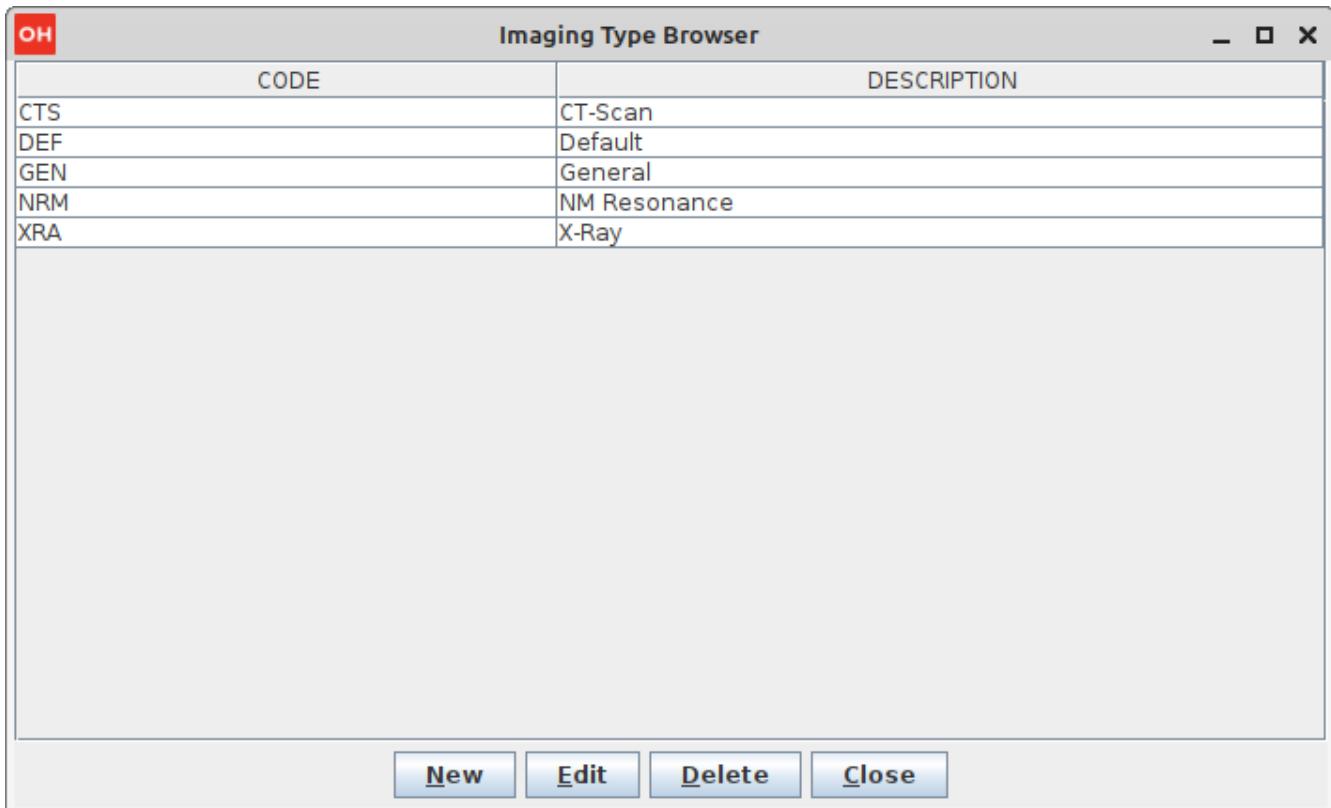
The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

The Vaccine Types defined are used in the Vaccine function (see [Vaccines](#) in this document).

12.2.14 Imaging Type (**Imaging Type**)

Once the **Imaging Type** button in the **Types** menu is pressed, the **Imaging Type Browser** window is shown:



The functions available in this window (similar to other windows in the **Types** menu) are:

- **New**: enter a new type (cannot use an existing code).
- **Edit**: edit an existing type (the code cannot be changed).
- **Delete**: delete an existing type (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

The Imaging Types defined are used in the imaging Load function (see [Imaging Viewer](#) in this document).

12.3 Hospital (**Hospital**)

Once the **Hospital** button in the **Settings** menu is pressed, the **Hospital Information** window is shown:

Hospital Information

Name:	St. Luke HOSPITAL - Angal
Address:	P.O. BOX 85 - NEBBI
City:	ANGAL
Telephone:	+256 0472621076
Fax number:	+256 0
Email address:	angal@ucmb.ug.co.
Currency Code:	UGX
Visit start hour:	6:30
Visit end hour:	20:00
Visit duration:	30

Edit **Update** **Close**

By pressing the **Edit** button, it is possible to modify the hospital information:

Hospital Information

Name:	St. Luke HOSPITAL - Angal
Address:	P.O. BOX 85 - NEBBI
City:	ANGAL
Telephone:	+256 0472621076
Fax number:	+256 0
Email address:	angal@ucmb.ug.co.
Currency Code:	UGX
Visit start hour:	6:30
Visit end hour:	20:00
Visit duration:	30

Edit **Update** **Close**

By pressing the **Update** button, the new information is stored in the system and is reflected throughout the entire application (for example, in the reports heading - see [Statistics](#) in this document).

12.4 Ward (Ward)

Once the **Ward** button in the **Settings** menu is pressed, the **Ward Browser** window is shown:

Ward Browser												
CODE	NAME	TELEPHONE	FAX	E-MAIL	BEDS	NURSES	DOCTORS	HAS OPD	HAS PHA...	MALE	FEMALE	DURATION
C	CHILDREN WARD	219			35	18	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	30
F	FEMALE WARD	218			41	15	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30
I	MALE WARD	210			53	14	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30
M	MATERNITY WARD	211			67	19	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30
OPD	OPD	212			0	1	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	15

The functions available in this window are:

- **New**: enter a new ward (cannot use an existing code).
- **Edit**: edit an existing ward (the code cannot be changed).
- **Delete**: delete an existing ward (cannot be deleted if still used somewhere in the application).
- **Close**: close the window.

By pressing the **New** button, the **New Ward** window is shown:

New Ward

Code *	<input type="text" value="T"/>
Name *	<input type="text" value="MALE WARD 2"/>
Telephone	<input type="text" value="233"/>
Fax	<input type="text"/>
E-mail	<input type="text"/>
Number of beds *	<input type="text" value="100"/>
Number of nurses *	<input type="text" value="5"/>
Number of doctors *	<input type="text" value="2"/>
Visit duration *	<input type="text" value="30"/>
<input type="checkbox"/> Ward with OPD	
<input checked="" type="checkbox"/> Ward with pharmacy	
<input checked="" type="checkbox"/> Male Ward	
<input type="checkbox"/> Female Ward	
* Required fields	
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

To insert a new ward, provide the following required inputs:

- **Code**: the ward code (it must be unique)
- **Name**: the name of the ward

- **Number of beds:** the value is shown in the admission module to check for available beds; 0 – zero beds wards will be not shown in the admission module
- **Number of nurses:** it may be shown in some reports (0 – zero is allowed)
- **Number of doctors:** it may be shown in some reports (0 – zero is allowed)
- **Visit duration:** length of a visit (in minutes and must be greater than zero)
- **Ward with OPD:** if checked, it means that the ward will also be available in the [OPD Extended](#) mode
- **Ward with pharmacy:** it is used in Pharmaceuticals Stock; if checked, it means that the ward can be a destination for discharging movements; otherwise it will be not shown in the list
- **Male Ward:** if it is a male Ward
- **Female Ward:** if it is a female Ward



Maternity (M) and OPD (OPD) wards are *built-in* wards and cannot be deleted, although they can be modified as needed.

The wards defined here are used throughout the entire application. See, for example, the Admission module, Pharmaceuticals Stock and Pharmaceuticals Stock Ward (see [Admission/Patient](#), [Pharmaceutical Stock](#) and [Pharmaceuticals Stock Ward](#) in this document).

12.5 Disease (Disease)

Once the **Disease** button in the **Settings** menu is pressed, the **Diseases Browser** window is shown:

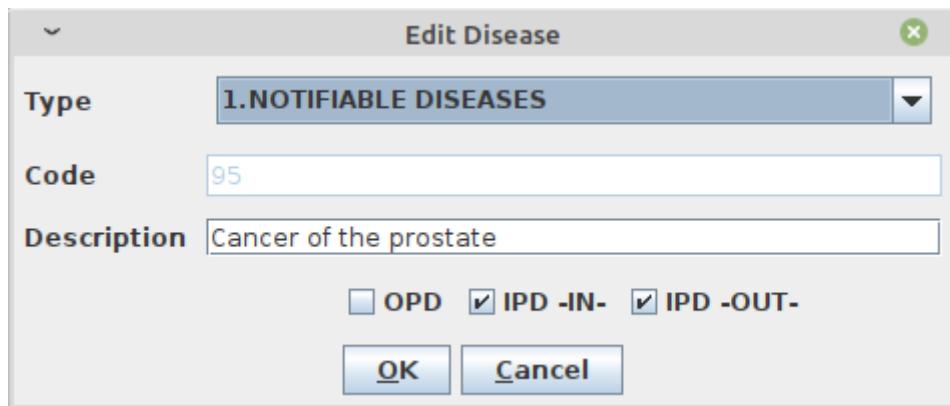
Diseases Browser		
CODE	TYPE	NAME
28	3.MATERNAL AND PERINATAL DISEASES	Abortions
1	1.NOTIFIABLE DISEASES	Acute Flaccid Paralysis
106	4.NON-COMMUNICABLE DISEASES	Acute renal failure
107	4.NON-COMMUNICABLE DISEASES	Acute sepsis
29	2.OTHER INFECTIOUS/COMMUNICABLE DISEASES	AIDS
75	4.NON-COMMUNICABLE DISEASES	Alcohol and drug abuse
49	5. All Other	All Other DISEASEs
12	4.NON-COMMUNICABLE DISEASES	Anaemia
82	4.NON-COMMUNICABLE DISEASES	Animal/snake bite
71	4.NON-COMMUNICABLE DISEASES	Anxiety disorders
68	4.NON-COMMUNICABLE DISEASES	Asthma
93	4.NON-COMMUNICABLE DISEASES	Benine neoplasm's (all type)
94	4.NON-COMMUNICABLE DISEASES	Cancer of the breast
95	1.NOTIFIABLE DISEASES	Cancer of the prostate
98	4.NON-COMMUNICABLE DISEASES	Caposis and other skin cancers
103	4.NON-COMMUNICABLE DISEASES	Cardiac arrest
102	4.NON-COMMUNICABLE DISEASES	Cerebro-vascular event
76	4.NON-COMMUNICABLE DISEASES	Childhood and mentle disorders
2	1.NOTIFIABLE DISEASES	Cholera
92	4.NON-COMMUNICABLE DISEASES	Complication and surgical care
91	1.NOTIFIABLE DISEASES	Congenital malformations and chromosome abnormal...
127	1.NOTIFIABLE DISEASES	Covid-19
101	4.NON-COMMUNICABLE DISEASES	Curable Ulcers
56	2.OTHER INFECTIOUS/COMMUNICABLE DISEASES	Death in OPD
13	4.NON-COMMUNICABLE DISEASES	Dental DISEASE and conditions

The functions available in this window are:

- **Selected Type:** filter the list by selecting only one Disease Type.
- **New:** enter a new disease (cannot use an existing code).
- **Edit:** edit an existing disease (the code cannot be changed).
- **Delete:** delete an existing disease (it is set as not present in OPD or in IPD).

- **Close**: close the window.

By pressing the **Edit** button, the **Edit Disease** window is shown:



In editing mode, the code cannot be changed and the only modifications allowed are to the Type, the Description and if the disease should appear only in OPD, or Admissions, or in both.

By removing the check from all the checkboxes (OPD, IPD -IN-, and IPD -OUT-), a **Delete** action is performed, disabling the disease from appearing in the application. This action can be undone by editing the disease again.

The diseases defined are reflected throughout the entire application, like in the Admission module and the OPD module (see [Admission/Patient](#) and [Outpatient Department Management](#) in this document).

12.6 Exam (Exams)

Once the **Exams** button in the **Settings** menu is pressed, the **Exam Browser** window is shown:

Exam Browser					
		Search			
CODE	TYPE	DESCRIPTION	PROC	DEFAULT	
01.01	1.Haematology	1.1 HB	1	>=12 (NORMAL)	
01.02	1.Haematology	1.2 WBC Count	1	4000 - 7000 (NORMAL)	
01.03	1.Haematology	1.3 Differential	1		
01.04	1.Haematology	1.4 Film Comment	1	0	
01.05	1.Haematology	1.5 ESR	1	NORMAL	
01.06	1.Haematology	1.6 Sickling Test	1	NEGATIVE	
02.01	2.Blood transfusion	2.1 Grouping	1		
02.02	2.Blood transfusion	2.2 Comb's Test	1	NEGATIVE	
03.01	3.Parasitology	3.1 Blood Slide (Malaria)	1	NEGATIVE	
03.02	3.Parasitology	3.2 Blood Slide (OTHERS. E.G. TRIUPHANOS...)	1	NEGATIVE	
03.021	3.Parasitology	3.21 Trypanosomiasis	1	NEGATIVE	
03.022	3.Parasitology	3.22 MICROFILARIA	1	NEGATIVE	
03.023	3.Parasitology	3.23 LEISHMANIA	1	NEGATIVE	
03.024	3.Parasitology	3.24 BORRELLIA	1	NEGATIVE	
03.03	3.Parasitology	3.3 STOOL MICROSCOPY	2		
03.04	3.Parasitology	3.4 URINE MICROSCOPY	1	NEGATIVE	
03.05	3.Parasitology	3.5 TISSUE MICROSCOPY	1	NEGATIVE	
03.06	3.Parasitology	3.6 CSF WET PREP	1	NEGATIVE	
04.01	4.Bacteriology	4.1 CULTURE AND SENSITIVITY (C&S) FOR HA...	1	NEGATIVE	
04.02	4.Bacteriology	4.2 C&S FOR SALMONELA TYPHI	1	NEGATIVE	
04.03	4.Bacteriology	4.2 C&S FOR CLOSTRIDIUM CLOSTRIDIUM	1	NEGATIVE	

The functions available in this window are:

- **Search**: subset the list by typing a keyword.
- **Select Type**: subset the list by selecting only one Exam Type.
- **New**: enter a new exam (cannot use an existing code).
- **Edit**: edit an existing exam (the code cannot be changed).
- **Delete**: delete an existing exam (it is set as not present in OPD or in IPD).

- **Results:** define possible results for the selected exam.
- **Close:** close the window.

By pressing the **Edit** button, the **Edit Exam** window is shown:

The screenshot shows a dialog box titled "Edit Exam". It contains five input fields: "Type" (set to "1.Haematology"), "Code" (set to "01.01"), "Description" (set to "1.1 HB"), "Procedure" (set to "1"), and "Default" (set to ">=12 (NORMAL)"). At the bottom are two buttons: "OK" and "Cancel".

Type:	1.Haematology
Code:	01.01
Description:	1.1 HB
Procedure:	1
Default:	>=12 (NORMAL)

OK Cancel

In editing mode, the code or procedure cannot be changed and the only modifications allowed are to the Type, the Description and the default value.

By pressing the **New** button, the **New Exam** window is shown:

New Exam

Type:	1.Haematology
Code:	
Description:	
Procedure:	1
Default:	

OK Cancel

To insert a new Exam, the following data must be provided:

- **Type:** the Exam Type (see [Exam Types](#) in this document).
- **Code:** a unique code; a warning window will appear if not unique.
- **Description:** the exam name.
- **Procedure:** the kind of results for this exam (see [Results](#) in this document).
- **Default:** a default value among the results that are going to be defined (see [Results](#) in this document).

12.6.1 Results ([Results](#))

Once an exam is defined, the next step is the definition of the set of results the exam can have. First, select the exam in the **Exam Browser** window and then press the [Results](#) button.

In Open Hospital, three kinds of results can be defined, called “Procedure”:

- **Procedure 1:** a set of values as description; only one will be selectable as exam **Single Result**
- **Procedure 2:** a set of Positive/Negative values; all of them will figure as exam **Multiple Results**
- **Procedure 3:** a specific value to be input manually; it will show an **input field** at the time of the exam registration

The difference between **Procedures (1, 2, 3)** can be seen in the Laboratory module (see [Create a new laboratory exam](#) and [Laboratory Multiple Insert](#) in this document).

Because for Procedure 3 the exact value is not known, the **Result** button is disabled in this case:

Exam Browser					
		TYPE ▾	DESCRIPTION	PROC	DEFAULT
CODE					
01.01	1.Haematology	1.1 HB	1	>=12 (NORMAL)	
1.1.1	1.Haematology	1.1.1 HB (Procedure 3)	3		
01.02	1.Haematology	1.2 WBC Count	1	4000 - 7000 (NORMAL)	
01.03	1.Haematology	1.3 Differential	1		
01.04	1.Haematology	1.4 Film Comment	1	0	
01.05	1.Haematology	1.5 ESR	1	NORMAL	
08.01	8.Occult Blood	8.1 OCCULT BLOOD	1	NEGATIVE	
01.06	1.Haematology	1.6 Sickling Test	1	NEGATIVE	
02.01	2.Blood transfusion	2.1 Grouping	1		
02.02	2.Blood transfusion	2.2 Combs's Test	1	NEGATIVE	
03.02	3.Parasitology	3.2 Blood Slide (OTHERS, E.G. TRIUPHANOS...)	1	NEGATIVE	
03.021	3.Parasitology	3.2.1 Trypanosomiasis	1	NEGATIVE	
03.022	3.Parasitology	3.2.2 MICROTRICHLARIA	1	NEGATIVE	
03.023	3.Parasitology	3.2.3 LEISHMANIA	1	NEGATIVE	
03.01	3.Parasitology	3.1 Blood Slide (Malaria)	1	NEGATIVE	
03.024	3.Parasitology	3.24 BORRELLIA	1	NEGATIVE	
03.03	3.Parasitology	3.3 STOOL MICROSCOPY	2		
03.04	3.Parasitology	3.4 URINE MICROSCOPY	1	NEGATIVE	
03.05	3.Parasitology	3.5 TISSUE MICROSCOPY	1	NEGATIVE	
03.06	3.Parasitology	3.6 CSF WET PREP	1	NEGATIVE	
04.01	4.Radiology	A.1 CULTURE AND SEDIMENTATION (C&C) FOR LIA	1	NEGATIVE	

Select type **ALL** **New** **Edit** **Delete** **Results** **Close**

The two remaining possibilities are shown below:

1.1 HB Results		URINALYSIS Results	
CODE	DESCRIPTION	CODE	DESCRIPTION
87	6 - 12	79	BILIRUBIN
88	< 6	81	HCG
89	>=12 (NORMAL)	80	PROTEIN
		76	SEDIMENTS
		77	SUGAR
		78	UROBILINOGEN

New **Delete** **Close** **New** **Delete** **Close**

The functions available in both windows are:

- **New**: enter a new result.
- **Delete**: delete a defined result.
- **Close**: close the window.

12.7 Operations (**Operation**)

Once the **Operation** button in the **Settings** menu is pressed, the **Operations Browser** window is shown:

ID	TYPE	NAME	CONTEXT
45	ABDOMINAL GENERAL SURGERY	Abdominal Tumours	OPD / ADMISSION
13	GYNECOLOGICAL	Acute abdomen	OPD / ADMISSION
43	ABDOMINAL GENERAL SURGERY	Appendicitis	OPD / ADMISSION
30	MALE GENITOR-URINARY SYSTEM	Bladder biopsy	OPD / ADMISSION
1	OBSTETRICAL	Caesarian section	OPD / ADMISSION
44	ABDOMINAL GENERAL SURGERY	Cholecystitis	OPD / ADMISSION
21	MALE GENITOR-URINARY SYSTEM	circumcision	OPD / ADMISSION
20	GYNECOLOGICAL	Cystorele	OPD / ADMISSION
51	OTHERS: SKIN AND SUBCUTANEOUS	Debridement	OPD / ADMISSION
11	OBSTETRICAL	Dilatation and curettage	OPD / ADMISSION
24	MALE GENITOR-URINARY SYSTEM	dorsal slit-paraphimosis	OPD / ADMISSION
14	GYNECOLOGICAL	Ectopic pregnancy	OPD / ADMISSION
3	OBSTETRICAL	elective	OPD / ADMISSION
2	OBSTETRICAL	emergency	OPD / ADMISSION
34	ABDOMINAL GENERAL SURGERY	Epigastrical Hernia	OPD / ADMISSION
8	OBSTETRICAL	Evacuations	OPD / ADMISSION
31	ABDOMINAL GENERAL SURGERY	Hernia (inguinal & femoral)	OPD / ADMISSION
26	MALE GENITOR-URINARY SYSTEM	Hydrocelectomy	OPD / ADMISSION
4	OBSTETRICAL	Hysterectomy	OPD / ADMISSION
7	OBSTETRICAL	Hysterectomy	OPD / ADMISSION
50	OTHERS: SKIN AND SUBCUTANEOUS	Incision & drainage	OPD / ADMISSION
9	OBSTETRICAL	Incomplete abortion	OPD / ADMISSION
6	OBSTETRICAL	Injured uterus	OPD / ADMISSION
37	ABDOMINAL GENERAL SURGERY	Intestinal obstruction	OPD / ADMISSION
40	ABDOMINAL GENERAL SURGERY	Laparatomy	OPD / ADMISSION
48	ORTHOPEDICAL	Lower limb	OPD / ADMISSION
38	ABDOMINAL GENERAL SURGERY	Mechanical	OPD / ADMISSION
52	OTHERS: SKIN AND SUBCUTANEOUS	Mise -a- plat	OPD / ADMISSION
33	ABDOMINAL GENERAL SURGERY	Non strangulated	OPD / ADMISSION
49	ORTHOPEDICAL	Osteomyelitis - sequestrectomy	OPD / ADMISSION
18	GYNECOLOGICAL	Ovarian tumours	OPD / ADMISSION
23	MALE GENITOR-URINARY SYSTEM	paraphimosis	OPD / ADMISSION
16	GYNECOLOGICAL	Pelvic abscess	OPD / ADMISSION
41	ABDOMINAL GENERAL SURGERY	Penetrating abdominal injuries	OPD / ADMISSION
15	GYNECOLOGICAL	Peritonitis	OPD / ADMISSION
42	ABDOMINAL GENERAL SURGERY	Peritonitis	OPD / ADMISSION
22	MALE GENITOR-URINARY SYSTEM	phimosis	OPD / ADMISSION
29	MALE GENITOR-URINARY SYSTEM	Prostate biopsy	OPD / ADMISSION

The functions available in this window are:

- **Selected type:** filter the list by selecting only one Operation Type.
- **New:** enter a new operation (cannot use an existing code).
- **Edit:** edit an existing operation (the code cannot be changed).
- **Delete:** delete an existing operation (it is set as not present in OPD or in IPD).
- **Close:** close the window.

By pressing the **Edit** button, the *Edit Operation* window is shown:

Edit Operation

Type:	ABDOMINAL GENERAL SURGERY
Code:	45
Description:	Abdominal Tumours
<input checked="" type="radio"/> Major <input type="radio"/> Minor	
Context:	OPD / ADMISSION

In editing mode, the code cannot be changed; only modification of the Type, the Description and whether the operation concerns Major or Minor surgery for statistical purposes (not yet implemented) are allowed.

The operation's context can also be changed: *OPD / ADMISSION, ADMISSION, OPD*.

The Operations defined are used throughout the entire application, like in the Admission module (see [Insert or Modify Surgery data](#) in this document).

12.8 Vaccine (Vaccine)

Once the **Vaccine** button in the **Settings** menu is pressed, the **Vaccine Browser** window as shown below:

CODE	TYPE	DESCRIPTION
1	Child	BCG
6	Child	DPT 1 - HepB + Hib 1
7	Child	DPT 2 - HepB + Hib 1
8	Child	DPT 3 - HepB + Hib 1
9	Child	MEASLES
2	Child	POLIO 0 C
3	Child	POLIO 1 C
4	Child	POLIO 2 C
5	Child	POLIO 3 C
10	Pregnant	TT VACCINE DOSE 1
15	No pregnant	TT VACCINE DOSE 2
11	Pregnant	TT VACCINE DOSE 2
16	No pregnant	TT VACCINE DOSE 3
12	Pregnant	TT VACCINE DOSE 3
17	No pregnant	TT VACCINE DOSE 4
13	Pregnant	TT VACCINE DOSE 4
18	No pregnant	TT VACCINE DOSE 5
14	Deceased	TT VACCINE DOSE 5

The functions available in this window are:

- **Selected type:** filter the list by selecting only one Vaccine Type.
- **New:** enter a new vaccine (cannot use an existing code).
- **Edit:** edit an existing vaccine (the code cannot be changed).
- **Delete:** delete an existing vaccine (it is set as not present in OPD or in IPD).
- **Close:** close the window.

By pressing the **Edit** button, the **Edit Vaccine** window is shown:

Type:	Child
Code:	1
Description:	BCG
OK Cancel	

In editing mode, the code cannot be changed; only modification of the Type and the Description is permitted.

The vaccines defined are used throughout the entire application, like in the Vaccine module (see [Vaccines](#) in this document).

12.9 Prices (Price Lists)

Once the **Price Lists** button in the **Settings** menu is pressed, the **Price Browser** window is shown:

Price Browser	
BASIC PRICE LIST (FCFA)	
<u>Manage Lists</u>	
NAME	PRICES
Basic	
Exams	
1.1 HB	10
1.1.1 HB (Procedure 3)	0
1.2 WBC Count	10
1.3 Differential	12
1.4 Film Comment	8
1.5 ESR	14
1.6 Sickling Test	14
2.1 Grouping	10
2.2 Comb's Test	0
3.1 Blood Slide (Malaria)	10
3.2 Blood Slide (OTHERS, E.G. TRIUPHANOSOMIAS, MICRIFILARIA, LEI	12
3.21 Trypanosomiasis	15
3.22 MICRIFILARIA	12
3.23 LEISHMANIA	12
3.24 BORRELIA	12
3.3 STOOL MICROSCOPY	16
3.4 URINE MICROSCOPY	16
3.5 TISSUE MICROSCOPY	16

Save Printing Cancel

The functions available in this window are:

- **Save:** save any modifications made to the price list.
- **Printing:** print the current price list.
- **Cancel:** close the window.
- Switch price list: focus on a different price list by selecting it in the upper-left corner of the window.
- **Manage Lists:** define how many and which price list will be available in the application (see [Price Lists](#) in this document).

The **Price Browser** window shows the list of all prices in the selected price lists; the system automatically creates a price for every exam (see [Exam](#)), operation (see [Operations](#)) and medical (see [Pharmaceuticals](#)) defined in the system, plus other prices defined in Other Prices module (see [Other Prices](#)).

To modify a price, just double-click on it and type the new price.

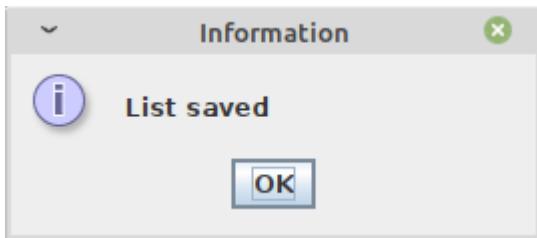


If a price has been defined as “undefined” (see [Other Prices](#)), it will appear as 0 (zero) and cannot be modified.



Exams', operations' and medicals' prices are automatically created as OPD, IPD, not “daily”, not “undefined”, and not “discharge”; see [Other Prices](#) for more information.

When all the modifications are made, the changes can be stored permanently in the system by pressing the **Save** button. A confirmation message reports the success of the operation:



12.9.1 Price Lists (Manage Lists)

Once the **Manage Lists** button in the **Price Browser** window is pressed, the **List Browser** window is shown:

ID	NAME	DESCRIPTION	CURRENCY
LIST001	Basic	Basic price list	FCFA

New **Copy** **Edit** **Delete** **Close**

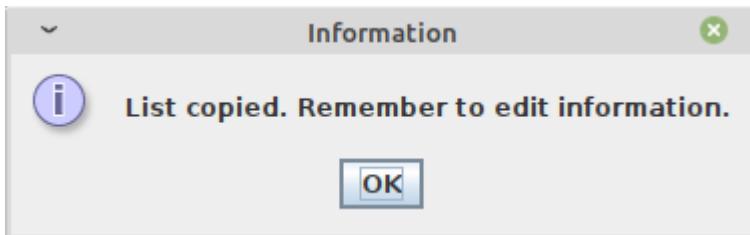
The functions available in this window are:

- **New**: enter a new price list.
- **Copy**: create a new price list as a copy of another one.
- **Edit**: edit an existing price list.
- **Delete**: delete an existing price list.
- **Close**: close the window.

After selecting a list to copy, press the **Copy** button and the system prompts with a series of windows asking:

1. a **Name** of the new price list
2. a **Multiplier** for all prices in the selected price list
3. a **Rounding Factor** for all prices in the new price list

A confirmation message reports the success of the operation:



By default, the new list is created with the following information:

ID: "aCode"

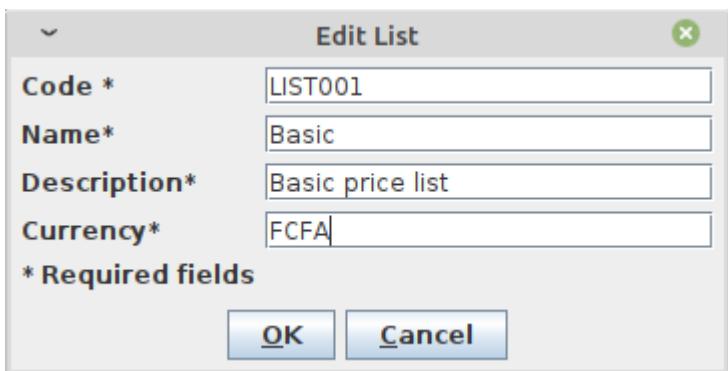
NAME: the same name provided in the step-by-step copying procedure

DESCRIPTION: "a Description"

CURRENCY: the currency of the selected price list

Once the copy has been created, the information can be changed by editing the price list just created.

By pressing the **Edit** button, the *Edit List* window is shown:



In editing mode, any of the data related to the list can be changed.

The lists defined are used in the Accounting module (see [Insert a new bill](#) in this document).

12.10 Supplier (**Supplier**)

Once the **Supplier** button in the *Settings* menu is pressed, the *Supplier Browser* window is shown:

Supplier Browser								
ID	NAME	ADDRESS	TAX NUMBER ID	TELEPHONE	FAX	E-MAIL	NOTE	DELETED
1	JMS Enterprise Limited	Sesame Strett - 73149 New ...		+22.243454252	+22.243454252	info@enterprise.com		
2								

[New](#) [Edit](#) [Delete](#) [Close](#)

The functions available in this window are:

- **New**: insert a new supplier.
- **Edit**: edit an existing supplier.
- **Delete**: delete a supplier.
- **Close**: close the window.

The **Supplier Browser** window shows the list of all the suppliers in the system.

To add a supplier, click the **New** button to access the **New Supplier** window as shown below:

New Supplier

ID:	
Name: *	
Address:	
Tax Number ID:	
Telephone:	
Fax number:	
E-mail:	
Note:	

* Required fields:

OK Cancel

The information associated with a new supplier is:

- **Name:** is the supplier's name (it is the only required field).
- **Address:** is the supplier's address.
- **Tax Number ID:** is the supplier's tax number.
- **Telephone:** is the supplier's phone number.
- **Fax number:** is the supplier's FAX number.
- **E-mail:** is the supplier's email address.
- **Note:** Additional notes about the supplier.

When the data is entered, click the **OK** button to save the new supplier.

To edit the supplier's information, in the **Supplier Browser** highlight the supplier and click on the **Edit** button to open the **Edit Supplier** window. After performing the necessary modifications, click the **OK** button to save the changes.

To delete a supplier, in the **Supplier Browser** highlight the supplier and click on the **Delete** button to remove the selected Supplier.

12.11 SMS Manager (SMS Manager)



SMS pricing is set and collected by the SMS Provider (GSM or HTTP) and is related to or controlled by this software.



Sending SMS in Open Hospital requires that the Gateway is well configured. Either a GSM gateway or WebApi Gateway can be used. Ask the Administrator about enabling this function or refer to the *Administrator's Guide*.

Once the **SMS Manager** button in the **Settings** menu is pressed, the **SMS Manager** window is shown:

The screenshot shows the 'SMS Manager' window with the following details:

- Title Bar:** OH SMS Manager
- Date Range:** Date From: 18/07/2022, Date To: 20/07/2022
- Table:** A grid displaying SMS logs. The columns are DATE, SCHED. DATE, TELEPHONE, SMS, and SENT.
- Log Data:**

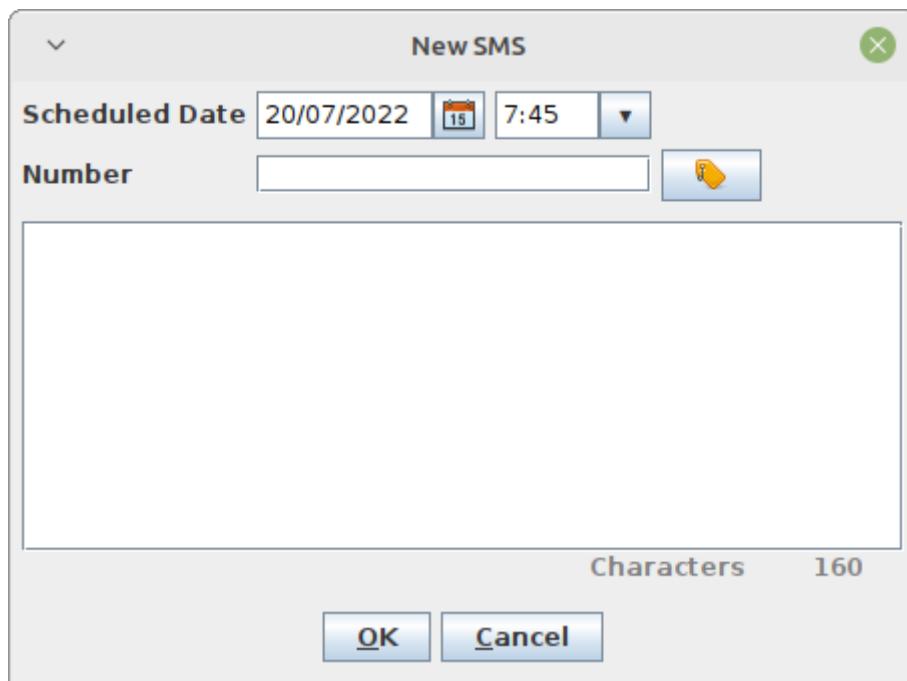
DATE	SCHED. DATE	TELEPHONE	SMS	SENT
19/07/2022 08:02	18/07/2022 08:02	0657059061	The test is complete	
19/07/2022 08:05	18/07/2022 18:04	+1443521111	The lab work is available	
19/07/2022 08:05	20/07/2022 08:13	4723360054	Please call to schedule an a...	
- Buttons:** New, Delete, Close

The functions available in this window are:

- **New:** send a new SMS.
- **Delete:** delete an SMS.
- **Close:** close the window.

It is also possible to filter the SMS list by a date range.

To send a new SMS, click the New button to access the **New SMS** window:



In order to insert a new SMS, the following data is required:

- **Scheduled Date:** use this field to send an SMS in the future. Use the current date and time to send the SMS immediately.
- **Number:** the recipient of the SMS. Select a patient by clicking the button . The phone number of the selected patient is automatically inserted.
- **SMS:** type the text of the SMS in the white space (maximum of 160 characters).

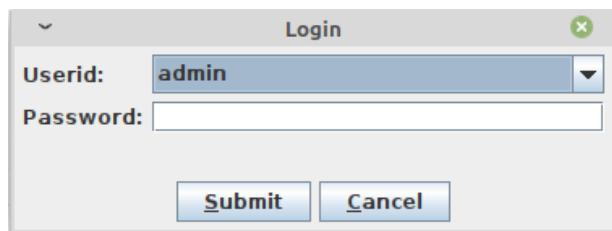
Then click **OK** to save the new SMS. If the scheduled date and time are now, the SMS is sent immediately.

To delete an SMS, highlight the SMS and click the **Delete** button to delete the SMS.

12.12 Users & Groups (**Users & Groups**)

The User Menu can be enabled or disabled by changing the *SINGLEUSER* flag in the configuration file. Ask the Administrator to enable/disable this function or refer to the *Administrator's Guide*.

If *SINGLEUSER* is set to NO, the following login window is shown when the program starts:



Once one has successfully logged into the system, the **Users & Groups** button in the *Settings* submenu is available, if enabled by the Administrator.

Once the ***Users & Groups*** button in the ***Settings*** submenu is pressed, the ***Users & Groups*** submenu is shown:



Open Hospital allows the management of users organized into groups; each group is characterized by different permissions assigned by the Administrator.

Before registering a new user in the system, ensure that there is a group defined with the related permissions to which the user should have access.

12.12.1 Groups (***Groups***)

Once the ***Groups*** button in the ***Users*** submenu is pressed, the ***Groups Browser*** window is shown:

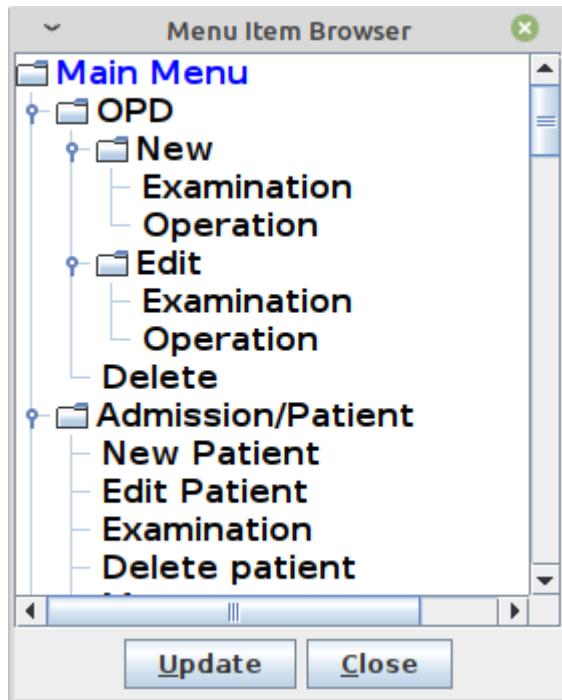
Groups Browser	
GROUP	DESCRIPTION
admin	USER with all the privileges
guest	Read Only Users

Edit **New** **GroupMenu** **Delete** **Close**

The functions available in this window are:

- **Edit**: edit an existing group (only the description can be changed).
- **New**: enter a new group.
- **GroupMenu**: define rights and permission for a selected group.
- **Delete**: delete an existing group.
- **Close**: close the window.

By pressing the **GroupMenu** button, the ***Menu Item Browser*** window is shown:

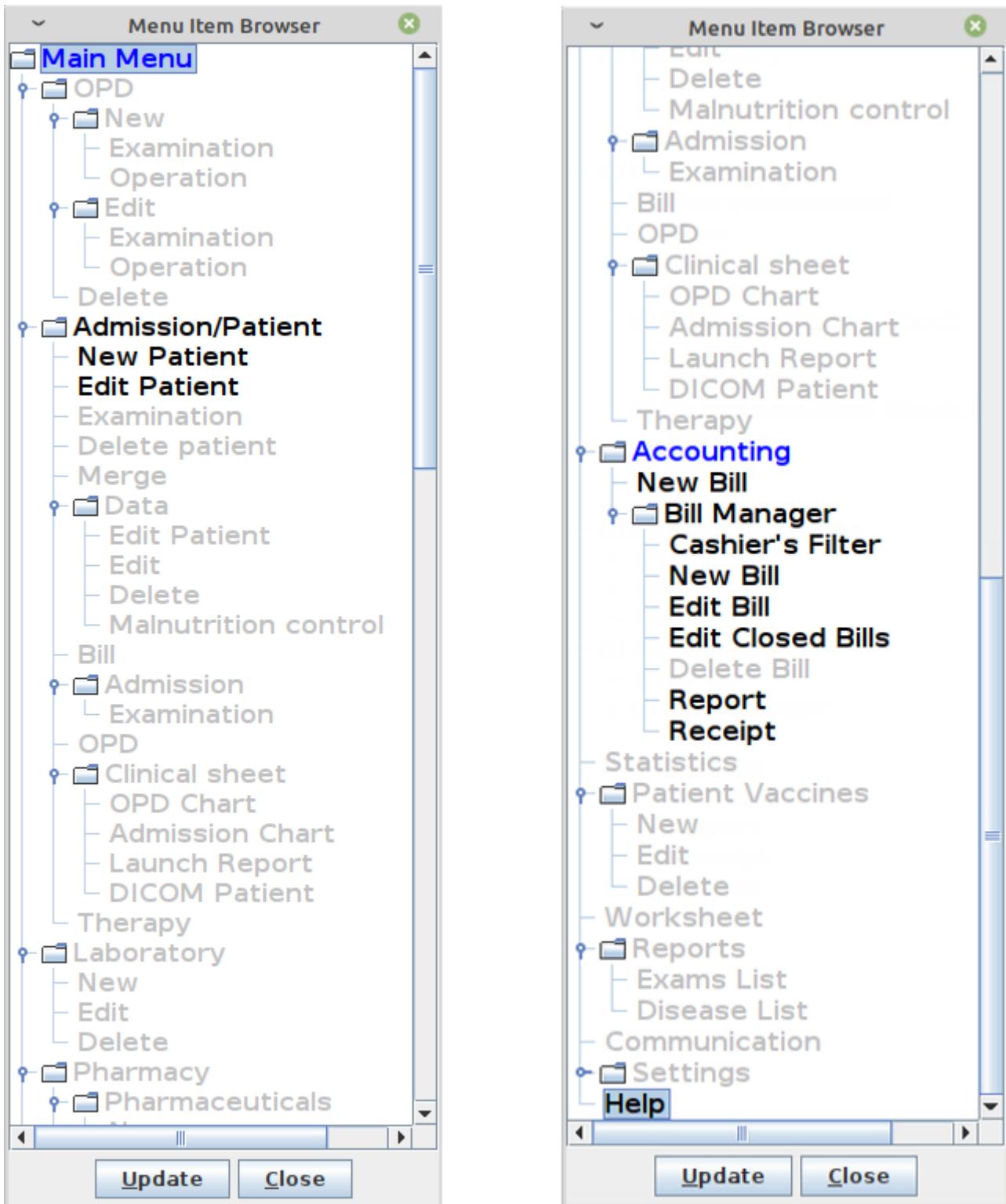


The window shows the full set of functions available in Open Hospital in a tree format:

- main is the “trunk”: the main menu
- **Blue** nodes are the “branches”: menus and windows
- **Black** nodes are the “leaves”: buttons and functions

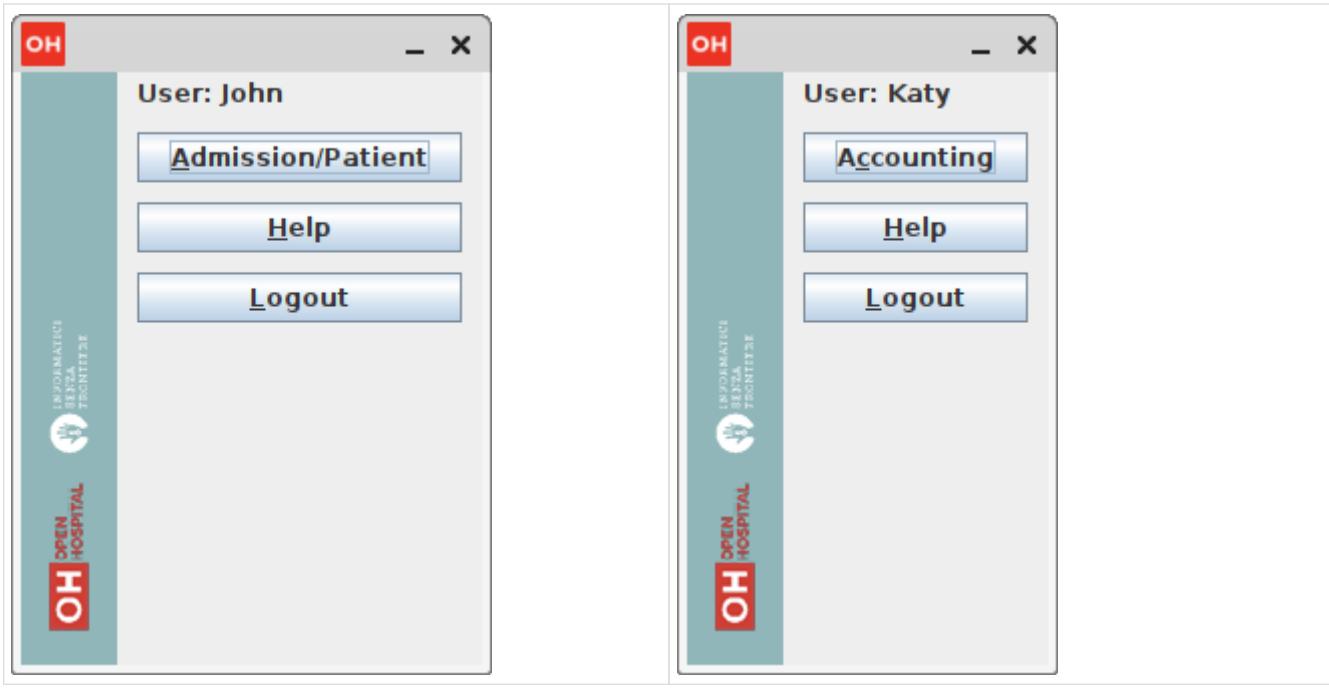
Double-clicking on each branch or leaf enables or disables that function or set of functions for the selected group.

For instance, the group “Registration Office” and the group “Cashiers” may have the following group permission configurations:



So, the Registration Office group can only use the Admission/Patient module to insert and edit patients, while the Cashiers group can only use the Accounting module to produce bills.

So, the “main menu” for each user registered in the Registration Office group and for each one in the Cashiers group is shown as follows:



12.12.2 Users (Users)

Once the **Users** button in the **Users & Groups** submenu is pressed, the **User Browser** window is shown:

User Browser			
USER	GROUP	DESCRIPTION	LOCKED
admin	admin	administrator	<input type="checkbox"/>
Allan	admin		<input type="checkbox"/>
Bob	admin		<input type="checkbox"/>
guest	guest	guest	<input type="checkbox"/>
John	admin		<input type="checkbox"/>
Judith	Cashiers	Cashier	<input type="checkbox"/>
Katy	Registration Office	Receptionist	<input type="checkbox"/>
Mary	admin		<input type="checkbox"/>

Select group: **ALL** **New** **Edit** **Reset Password** **Delete** **Close**

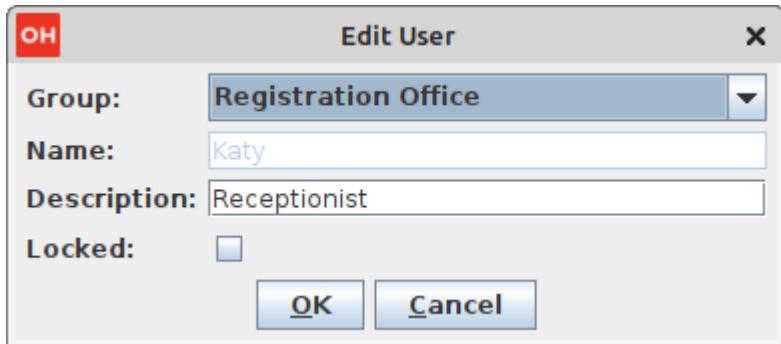
The last column, **LOCKED**, if checked indicates that the user is currently locked out from logging into the system.

The functions available in this window are:

- **Select group:** filter the list by selecting only one group.

- New: enter a new user (cannot use the same name).
- Edit: edit an existing user (the password cannot be changed).
- Reset Password: change the password for an existing user.
- Delete: delete an existing user.
- Close: close the window.

By pressing the **Edit** button, the **Edit User** window is shown:

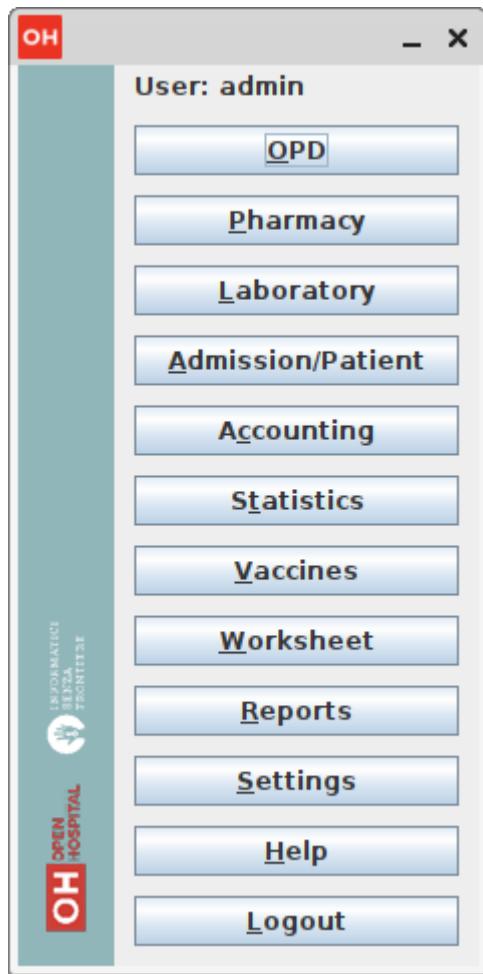


In editing mode, the group, the description, and whether the user is locked out from logging into the system can be modified. To **lock** or **unlock** a user account check or uncheck the box after **Locked**:

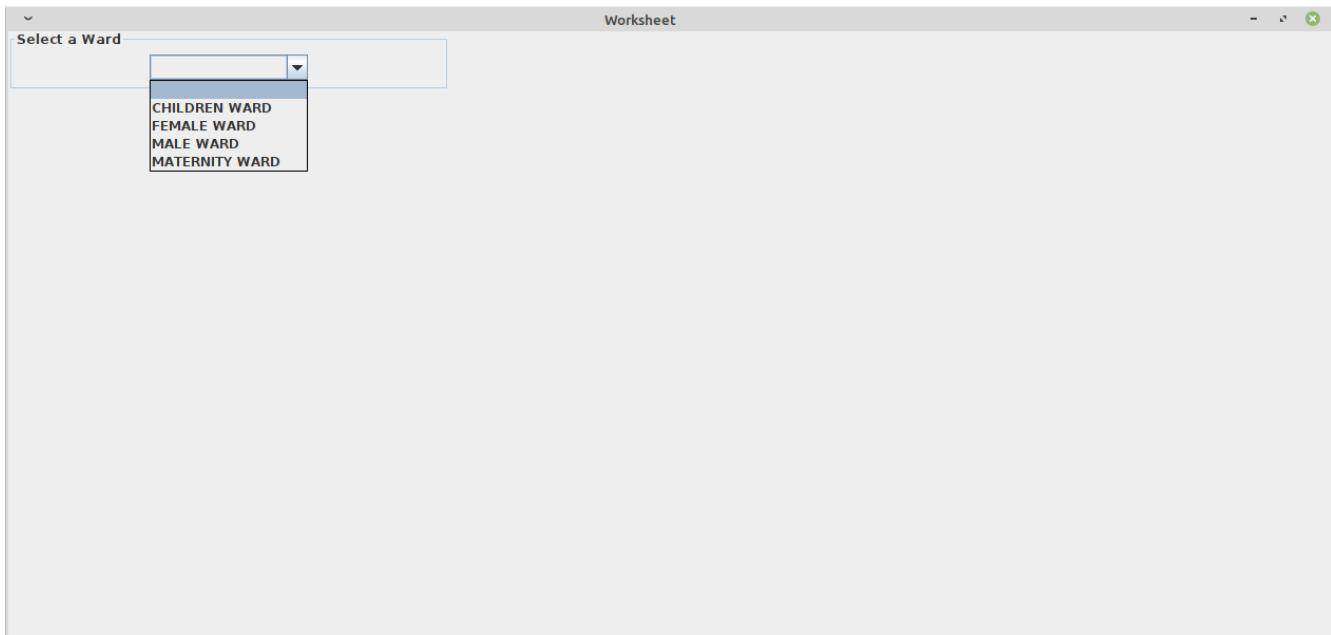
13 Worksheet (Worksheet)

The **Worksheet** function allows the management and printing of the list of appointments scheduled.

Click the mouse on the button or press "Alt + W" to enter the **Worksheet** page:



The *Worksheet* module works at the Ward (Department) level; therefore, a ward must first be selected:



Once one has selected the ward (it is possible to switch to another ward at any time), a two-column appointment schedule is shown with the appointments/services scheduled for today (on the left) and tomorrow (on the right):

Visits	
29/07/2022	06:30 - (Pat. ID: 505) - Courtney Gina - N/D (20Min)
	08:10 - (Pat. ID: 512) - Millman Enriqueta - N/D (20Min)
	13:10 - (Pat. ID: 560) - Zoey Watkins - N/D (20Min)
30/07/2022	
	09:30 - (Pat. ID: 510) - Racuba Scottie - N/D (20Min)
	10:50 - (Pat. ID: 519) - Jeanna Rickember - N/D (20Min)

Buttons: <-Prev., Next->, Go to date: 29/07/2022, Today, Add Visit, Remove Visit, Print this day's visits (1), Add Visit, Remove Visit, Print this day's visits (2), Close.

One can either select another date with the **Go to date** field or reset the schedule back to today with the button **Today**. In either case, the window always shows the chosen date on the left and the following day on the right.



The section [8.10.8.1 Appointments rules](#) describes the constraints to create a valid appointment/visit.

The functions available in this window are:

- **Add Visit:** schedule a new visit for a specific date (on the left or on the right).
- **Remove Visit:** remove a visit for a specific date (on the left or on the right).
- **Print this day's visits:** print the specific date scheduled visits.

- Next →: see the schedule for the following day.
- ← Prev.: see the schedule for the previous day.
- Close: close the window.



Scheduling a visit can also be done in the **Therapy Management** module; see [Therapy Management](#)

14 License



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