

Open Hospital 1.11.4 - User's Guide

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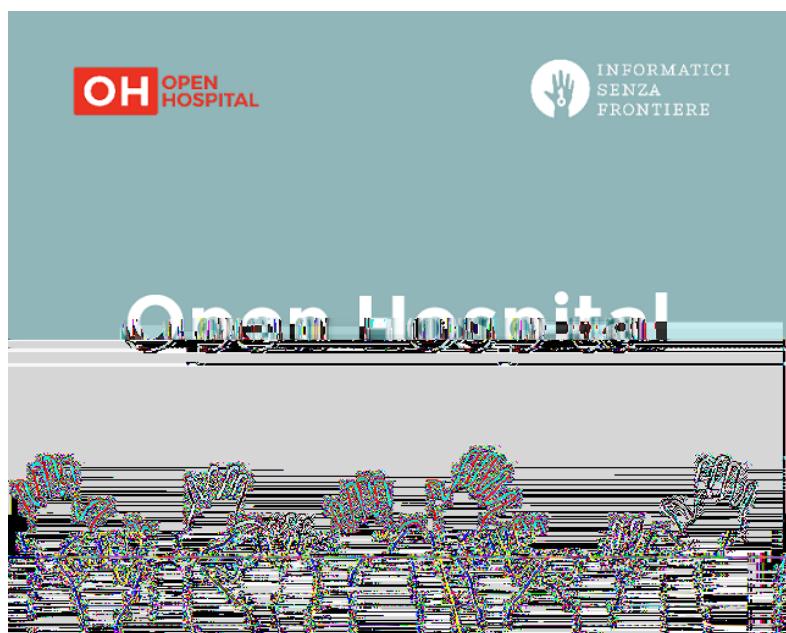
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Informatici Senza Frontiere Onlus, 2022

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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 the administrative operations (like registering patients, manage laboratory analysis and pharmaceutical stocks) and to produce 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 use correctly and efficiently 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 on the bottom of the main MENU of Open Hospital provides access to this document offline.

1.2.2 Legend

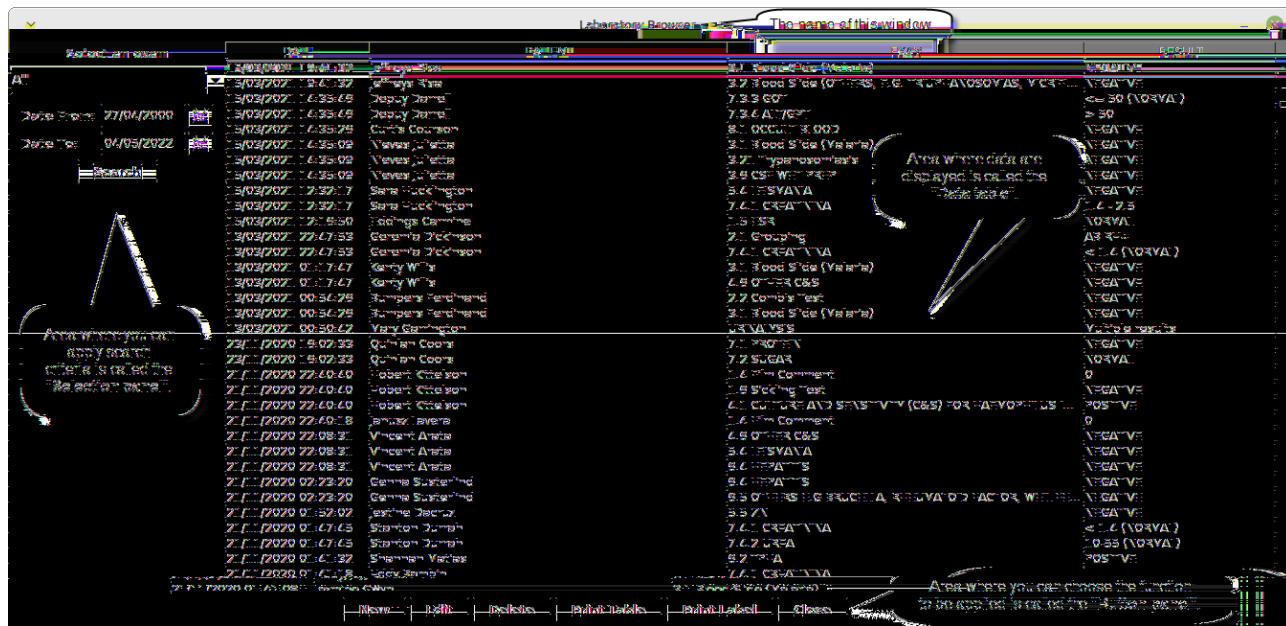
In this document the following conventions are used:

- 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 Italic (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 pressing the “Alt” key and at the same time 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).



- 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 example below):

Pharmaceutical Browser						
Type	Code	Description	PcsXpck	Stock	Crit. Level	Out of Stock
Laboratory		4 Dimethyl Amino benzaldehyde	0	0	0	✓
Drugs		Acetazolamide 250mg Tab	0	0	0	✓
Laboratory		Acetic Acid Glacial 1 ltr	0	0	0	✓
Laboratory		Aceton 99% 1ltr	0	0	0	✓
Drugs		Aciclovir cream	0	320	2	□
Drugs		Acyclovir 200mg Tab	0	1,210	0	□
Surgery		Adhesive Tape 2.5cm x 5m	0	20	0	□
Surgery		Adhesive Tape 7.5cm x 5m	0	0	0	✓
Drugs		Adrenaline 1mg/ml 1ml Amp	0	0	0	✓
Surgery		Air ring set 43x15cm, rubber with pump	0	0	0	✓
Surgery		Airway Guedel Size 0	0	0	0	✓
Surgery		Airway Guedel Size 00	0	0	0	✓
Surgery		Airway Guedel Size 1	0	0	0	✓
Surgery		Airway Guedel Size 2	0	0	0	✓
Surgery		Airway Guedel Size 3	0	0	0	✓
Drugs		Albendazole 200mg Tab	0	37,200	450	□
Drugs		Albendazole 400mg Tab	0	0	0	✓
Drugs		Aminophylline 25mg/ml 1.0ml Amp	0	190	0	□
Drugs		Aminophylline 100mg Tab	0	8,981	0	□
Drugs		Amitriptyline 25mg Tab	0	5,600	0	□
Laboratory		Amonium Oxalate	0	0	0	✓
Drugs		Amoxycillin /Clavulanate 375mg Tab	0	0	0	✓
Drugs		Amoxycillin 125mg/5ml Powd. Susp 100ml	0	180	0	□
Drugs		Amoxycillin 250mg Caps	0	56,080	0	□
Drugs		Amphotericin B 50mg Vial	0	0	0	✓
Drugs		Amoxicillin 500mg 1ml	0	650	0	□

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).

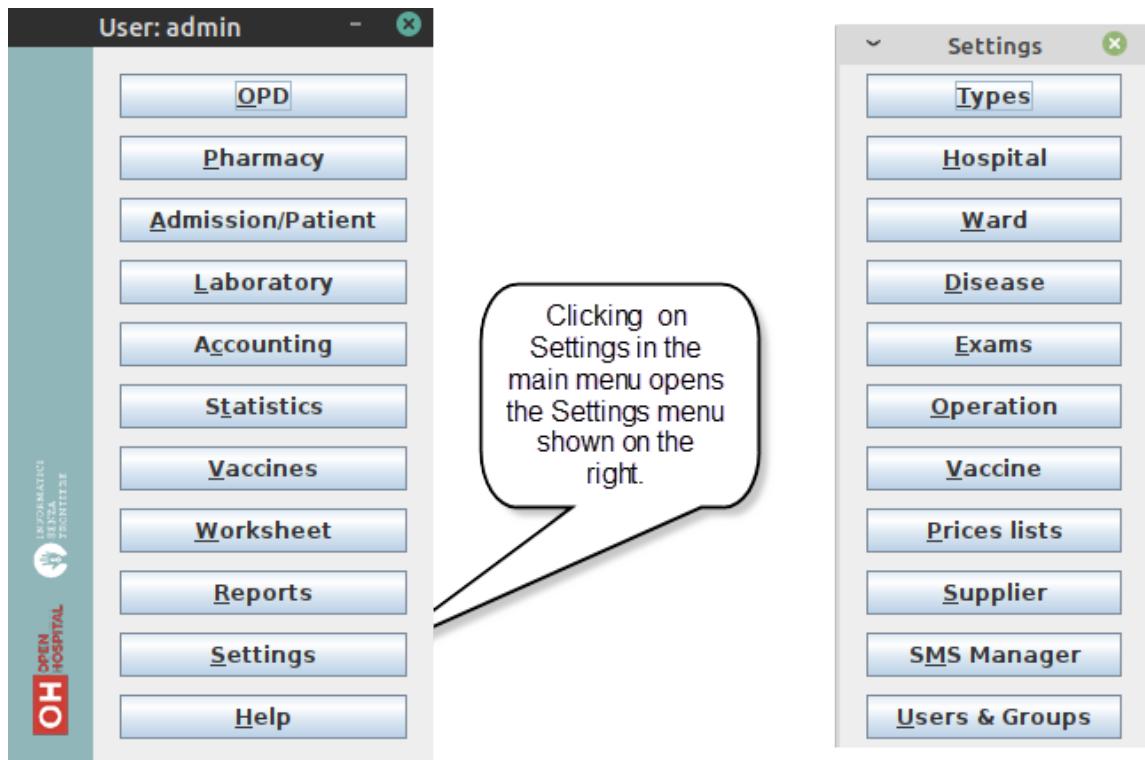
2.1 Main menu

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

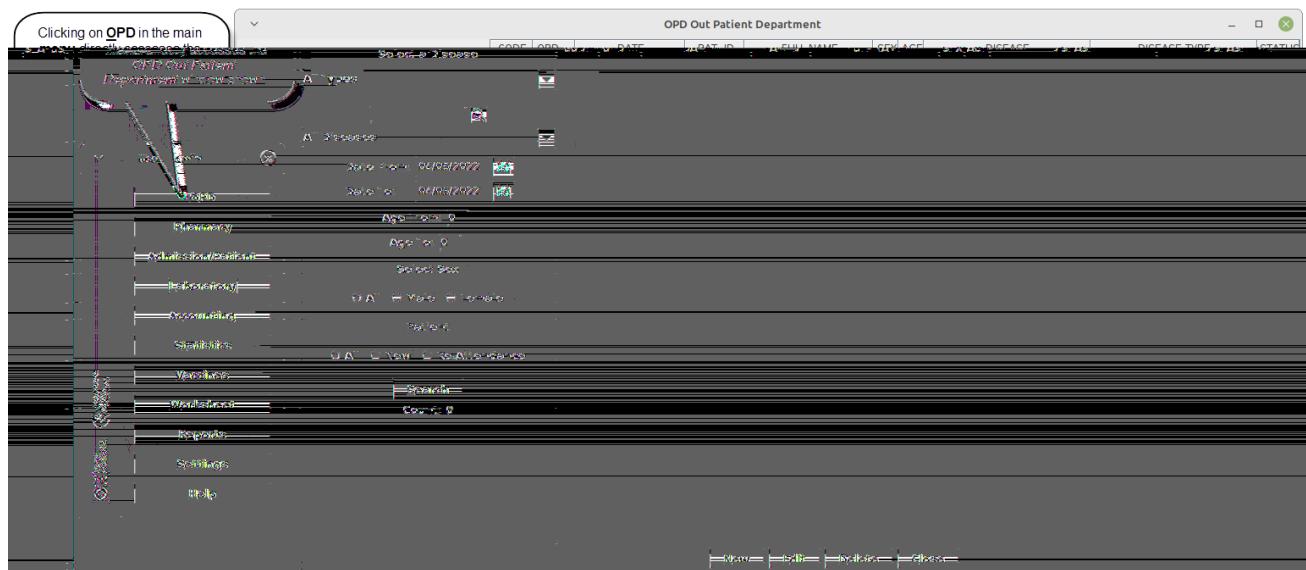


2.2 Functions

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 dropdown menus for 'Select a Ward' (All Wards), 'Select a Disease' (All Diseases), and date ranges ('Date From: 28/09/2022', 'Date To: 05/10/2022'). It also includes filters for 'Age From: 0', 'Age To: 0', 'Select Sex' (radio buttons for All, Male, Female), 'Type' (radio buttons for All, New, Re-Attendance), and a 'Search' button. A counter at the bottom indicates 'Count: 0'. On the right, there is a 'Data table' header row with columns: CODE, OPD NO., WARD, DATE, PAT. ID, FULL NAME, SEX/AGE, DISEASE, DISEASE TYPE, and STATUS.

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:

- **Ward:** Select a specific OPD ward
- **Disease type:** Select a specific disease type or all disease types
- **Disease:** select a specific disease, or all diseases, or searching for partial matches by typing some letters in the search field
- **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
- **Sex:** Select patients by sex: All / Male / Female
- **Type of patient:** Select visits by type of attendance: All / New / Re-Attendance

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 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.

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 Admittance Referral Referred To

Admittance Date

09/05/2022 14:52

Disease Type

All Types

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 an individual is new or not 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 regards 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 regards 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 and 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 then created but without the *NEW ATTENDANCE* flag set.

- **Admittance 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 each 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 0-200.
- **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 highlighted, press the **Edit** button. When the **Edit OPD Registration** window is shown, all the data can be changed or modified.

Edit OPD Registration

New Admittance Referral Referred To

Admittance Date
08/11/2020 16:28

Disease Type
2. OTHER INFECTIOUS/COMMUNICABLE DISEASES

Diagnosis

Eye Infection

Diagnosis n.2 (full list)

Diagnosis n.3 (full list)

Age: 68

Sex: Male Female

OK 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 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.

Question

?

Delete the following opd?

Registration Date: 09/11/2021
 Disease: Hernias
 Age: 51 Sex: M
 Visit Date: 09/11/2021

Yes No

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

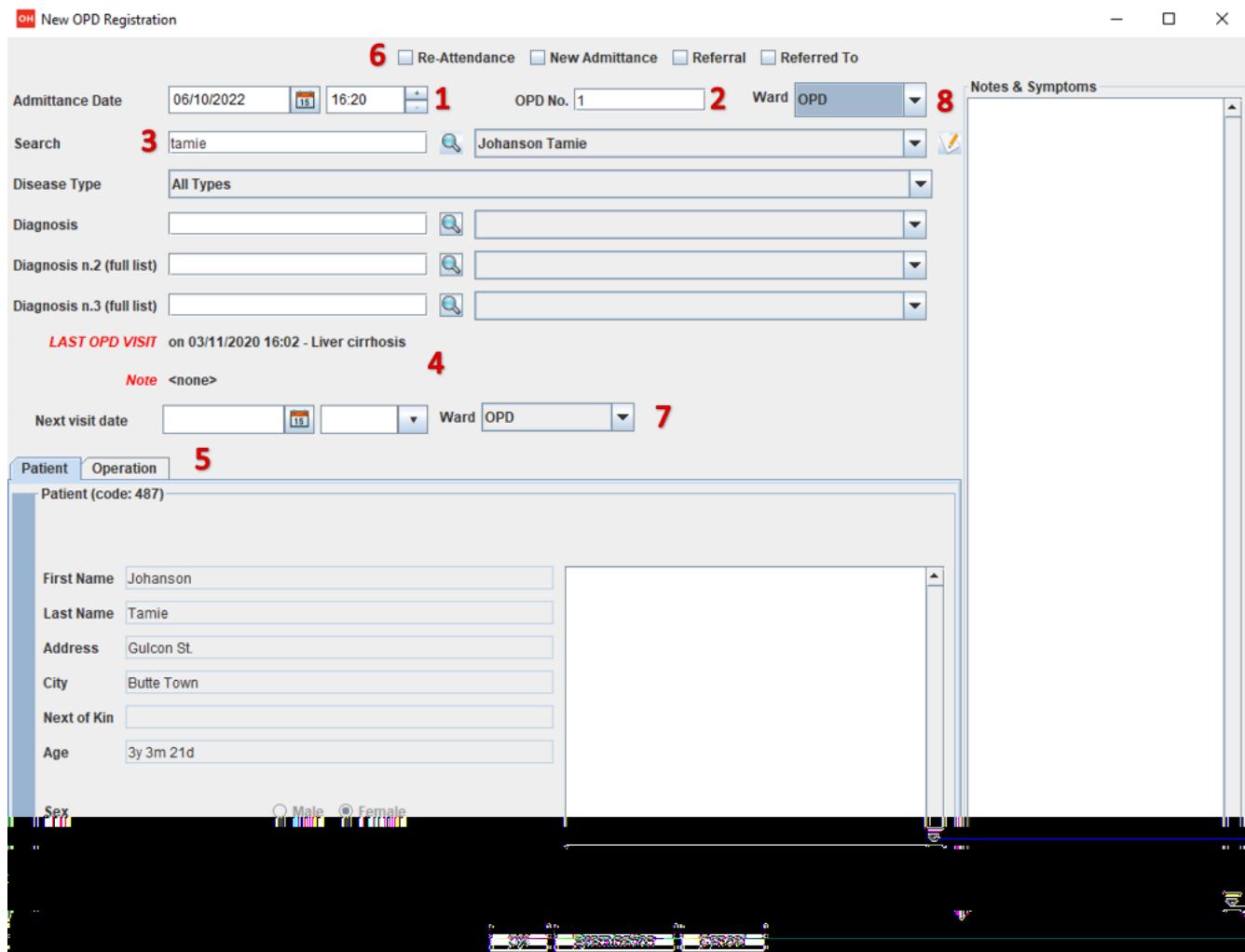
- Yes: confirm the deletion of the visit.
- No: close the window and return to the **OPD Out Patient Department** window without deleting the visit.

3.3 OPD Extended

The OPD functionality can be extended by changing the *OPD_EXTENDED* 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 OPD Extended module affords the following additional features:

- Calendar to choose the visit date (1);
- the OPD number now is visible (2): it is 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, 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 search field nearby by typing part of the patient's name or code; this improves the reliability of reports and statistics, and therefore is a service to the patient by knowing his/her history.
- Once the patient is selected and 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 checkbox 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](#).
- The selection of the 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 Admittance" (6) check box and proceed normally.
- If editing an old OPD it is possible to change everything except the patient, which the OPD refers to, and the "New Admittance" check box.
- In the case the selected patient 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 personal information ready for modification.
- In the case 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](#)).

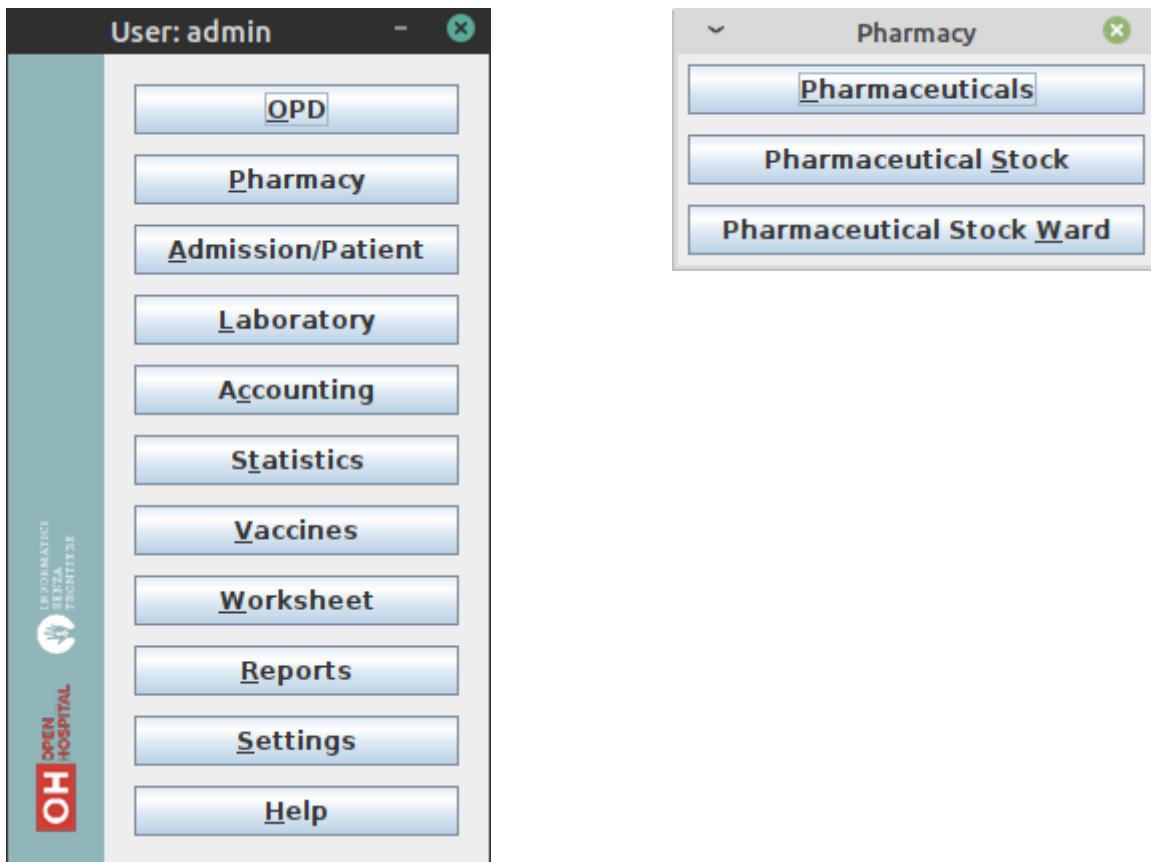


For OPD and IPD wards see [Ward](#) settings.

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** and **Pharmaceuticals Stock, 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 expiring drugs today or a 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			
Category	Product	Quantity	Status
Laboratory	Acetaminophen 250 mg Tab	5	Green
Laboratory	Acetic Acid Gavisil 1%	1	Green
Laboratory	Aclacin 99% 1L	1	Green
Laboratory	Aclacin cream	320	Green
Laboratory	Alegreto 200 mg Tab	20	Green
Laboratory	Albuterol 1000 mcg x 3ml	1	Green
Laboratory	Albuterol 1000 mcg x 5ml	1	Green
Laboratory	Albuterol 1mg/ml 1L Amp	1	Green
Laboratory	Albuterol 1mg/ml 1L Amp with pump	1	Green
Laboratory	Alivary Gocce Sito 0	1	Green
Laboratory	Alivary Gocce Sito 00	1	Green
Laboratory	Alivary Gocce Sito 1	1	Green
Laboratory	Alivary Gocce Sito 2	1	Green
Laboratory	Alivary Gocce Sito 3	1	Green
Laboratory	Alendrostone 20mg Tab	37,200	Green
Laboratory	Alendrostone 400mg Tab	1	Green
Laboratory	Amidopurine 250mg/100ml Amp	100	Green
Laboratory	Amidopurine 500mg Tab	8,300	Green
Laboratory	Amifostine 250 mg Tab	3,600	Green
Laboratory	Ammonium Oxalate	0	Green
Laboratory	Amoxicillin (Cavalean) 500mg Tab	0	Green
Laboratory	Amoxicillin 250mg Oral Suspension	1,800	Green
Laboratory	Amoxicillin 250mg Caps	56,000	Green
Laboratory	Amphotericin 3.50 mg Vial	0	Green
Laboratory	Amoxicillin 500mg Vial	550	Green
Laboratory	Anti-Serum 1L 0%	0	Green

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.

New Medical	
Type:	Chemical
Code:	<input type="text"/>
Description:	<input type="text"/>
Pieces per Packet:	1
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.

4.1.2.2 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

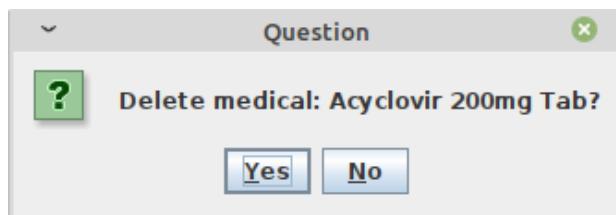
OK Cancel

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)

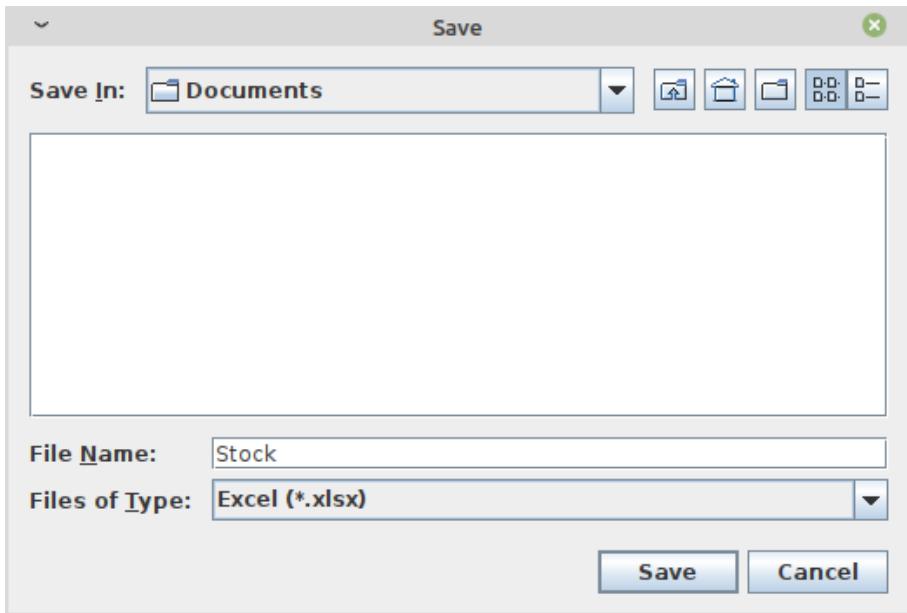
Use this function to export the list of pharmaceuticals shown in the **Pharmaceutical Browser** window that then can be imported into Excel.

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 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 one
- the ward that the movement refers to. 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 to. 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												
REF. ...	DATE	TYPE	WARD	QTY	PHARMACEUTICAL	MED TYPE	LOT	PREP DATE	DUE DATE	ORIGIN	COST	TOTAL
302	15/03/2021...	Disc...	CHILDREN WARD	20	cotton Wool 500G	Surgery	714445...	15/03/2021	15/03/2021	JMS	2.000	40.00
301	15/03/2021...	Char...		100	cotton Wool 500G	Surgery	714445...	15/03/2021	15/03/2021	Enter...	2.000	200.00
300	15/03/2021...	Char...		20	Whitfield Ointment 200g	Drugs	730989...	15/03/2021	15/03/2021	Enter...	8.000	160.00
205	15/03/2021...	Disc...	FEMALE WARD	20	Mosquito Net Impreg...	Surgery	135215...	15/03/2021	15/03/2024		30.000	600.00
204	15/03/2021...	Disc...	MALE WARD	40	Chlorpromazine 25m...	Drugs	746001...	15/03/2021	15/03/2021		2.000	80.00
203	15/03/2021...	Char...		100	Chlorpromazine 25m...	Drugs	746001...	15/03/2021	15/03/2021	JMS	2.000	200.00
202	15/03/2021...	Char...		1000	Gloves Surgical Steril...	Surgery	119075...	15/03/2021	15/03/2021	JMS	0.150	150.00
201	15/03/2021...	Char...		10	X-Ray Film 43x35cm	Surgery	593753...	15/03/2021	15/03/2021	JMS	10.000	100.00
14	15/03/2021...	Char...		10	Liquid detergent 20ltr	Drugs	255823...	15/03/2021	15/03/2021	JMS	0.500	5.00
13	15/03/2021...	Char...		20	Adhesive Tape 2.5cm..	Surgery	367058...	15/03/2021	15/03/2021	Enter...	2.000	40.00
12	15/03/2021...	Char...		300	Vitamin B Complex Tab	Drugs	252925...	15/03/2021	15/03/2021	JMS	2.000	600.00
11	15/03/2021...	Char...		50	Mosquito Net Impreg...	Surgery	135215...	15/03/2021	15/03/2024	Enter...	30.000	1,500.00
10	13/03/2021...	Char...		100	Fluconazole 100mg T...	Drugs	139776...	15/03/2021	15/03/2024	JMS	15.000	1,500.00

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 movement for a certain pharmaceutical (can be directly selected by the list otherwise will be requested).
- **Stock Ledger**: show the history of movement for all pharmaceuticals within a selected date range.
- **Close**: exit the **Stock Movement Browser** window.



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**)

The Selection Panel contains the following filters:

- Pharmaceutical**: Includes a search field and a dropdown menu set to "All".
- Movement**: Includes a dropdown menu set to "All".
- Date**: Includes "From" and "To" fields with date pickers set to "01/02/2021" and "01/04/2021" respectively.
- Lot Preparation Date**: Includes "From" and "To" fields with date pickers.
- Lot Due Date**: Includes "From" and "To" fields with date pickers.

At the bottom are two buttons: "Filter" and "Keep".

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

- how many boxes of pharmaceutical remains 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 pharmaceutical expired

Queries about 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, and Drugs, 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 similar 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

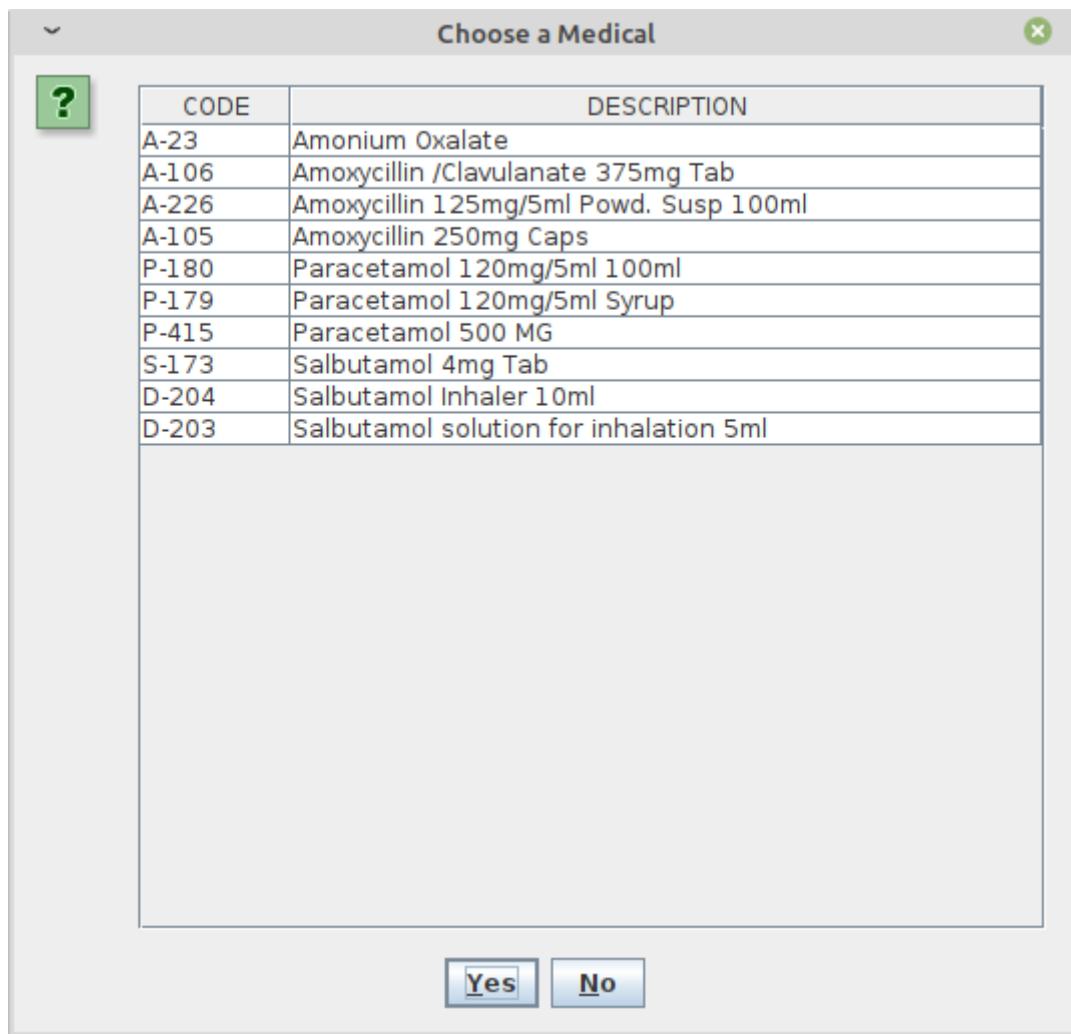
Date:	09/05/2022	<input type="button" value="15"/>	12:39	<input type="button" value="+"/>	<input type="button" value="-"/>	Reference No.:	<input type="text"/>		
Charge Type:	<input type="button" value="Charge"/>								
Supplier:	<input type="text"/>								
<i>Type a code or a description and press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

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**.

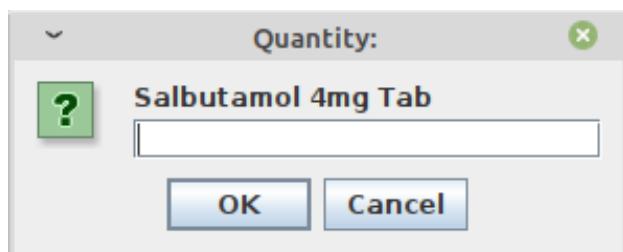
The **Panel** contains the following fields:

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

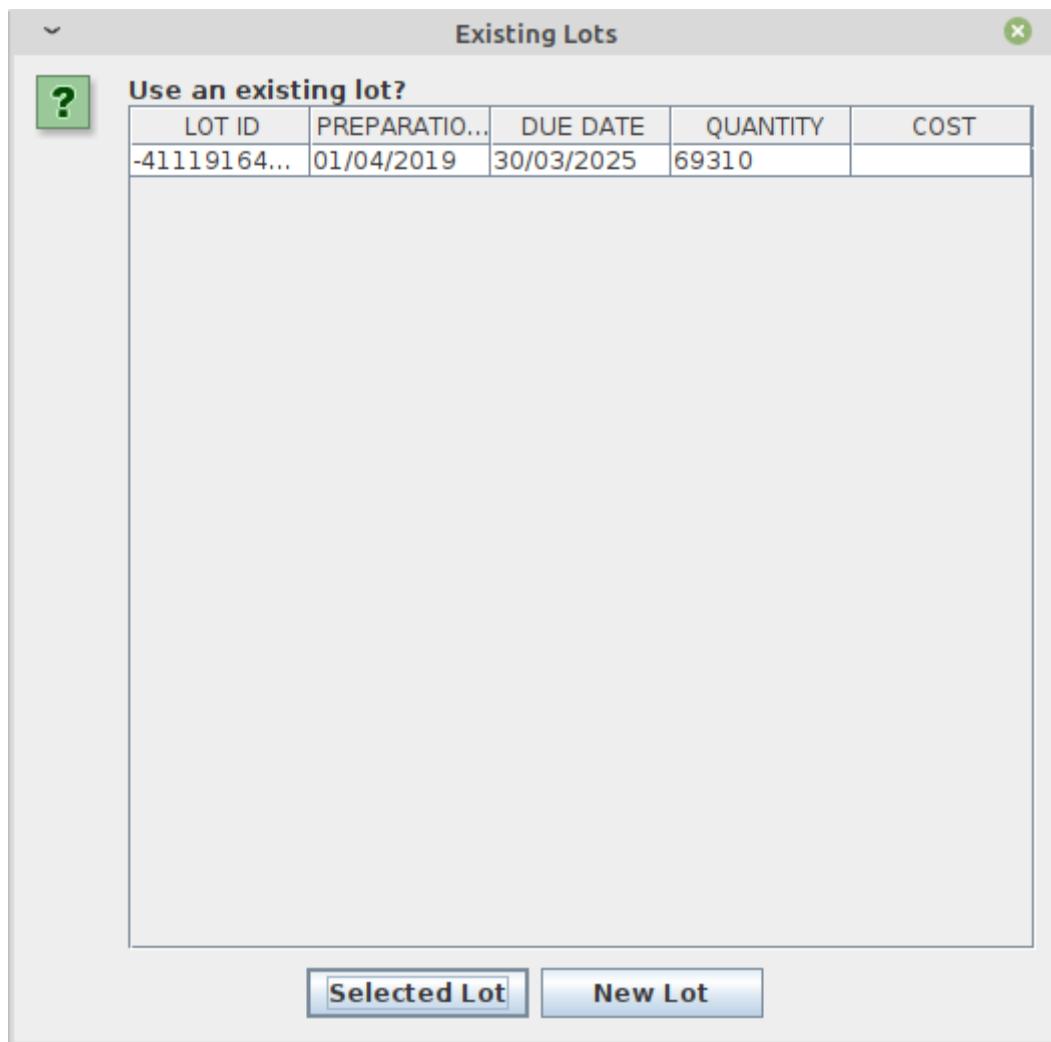
The **Grid** is filled with the pharmaceuticals involved in the charging movement. To fill the grid, use the field above the grid to select a pharmaceutical. Enter into the field the code or the description of the pharmaceutical to move, and press **ENTER**. This will open the **Choose a Medical** window.



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

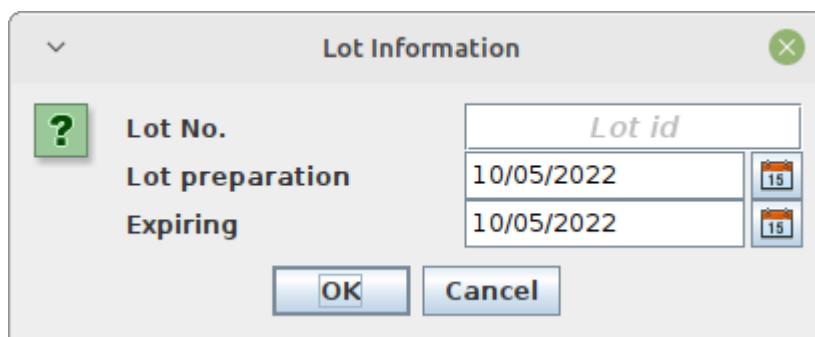


Then press **OK**. If there is an existing lot in the system, the **Existing Lot** window is shown:

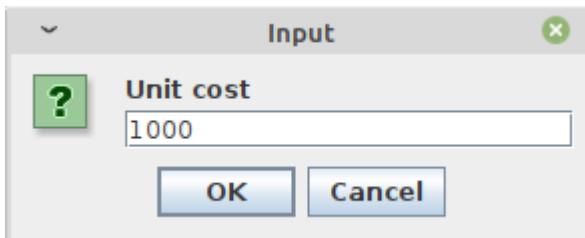


If stock movement is related to this existing lot, select it and click **Selected Lot**. Otherwise, click **New Lot** and the ***Lot Information*** window is shown with the following fields:

- **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:

A screenshot of the "Stock Movement" window. At the top, there are fields for "Date" (set to 09/05/2022), "Reference No.", "Discharge Type" (set to "Discharge"), and "Destination". Below these is a large grid table with the following columns: CODE, DESCRIPTION, UNIT/PACK, QTY, UNIT/PACK, TOTAL, LOT NO., and EXPIRING. A placeholder text "Type a code or a description and press ENTER" is displayed above the grid. At the bottom of the window are three buttons: "Delete", "Save", and "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

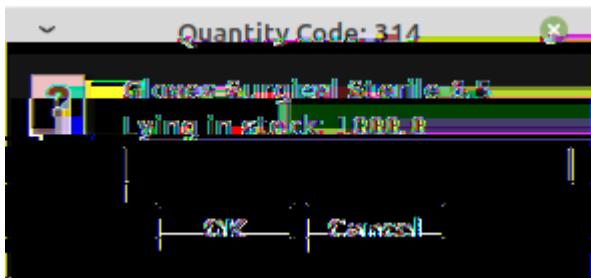
The **Grid** is filled in with pharmaceuticals involved in the discharging movement. To fill the grid, enter into the field above the grid the description of the pharmaceutical to discharge, and press **ENTER**. This opens the **Choose a Medical** window.

Choose a Medical

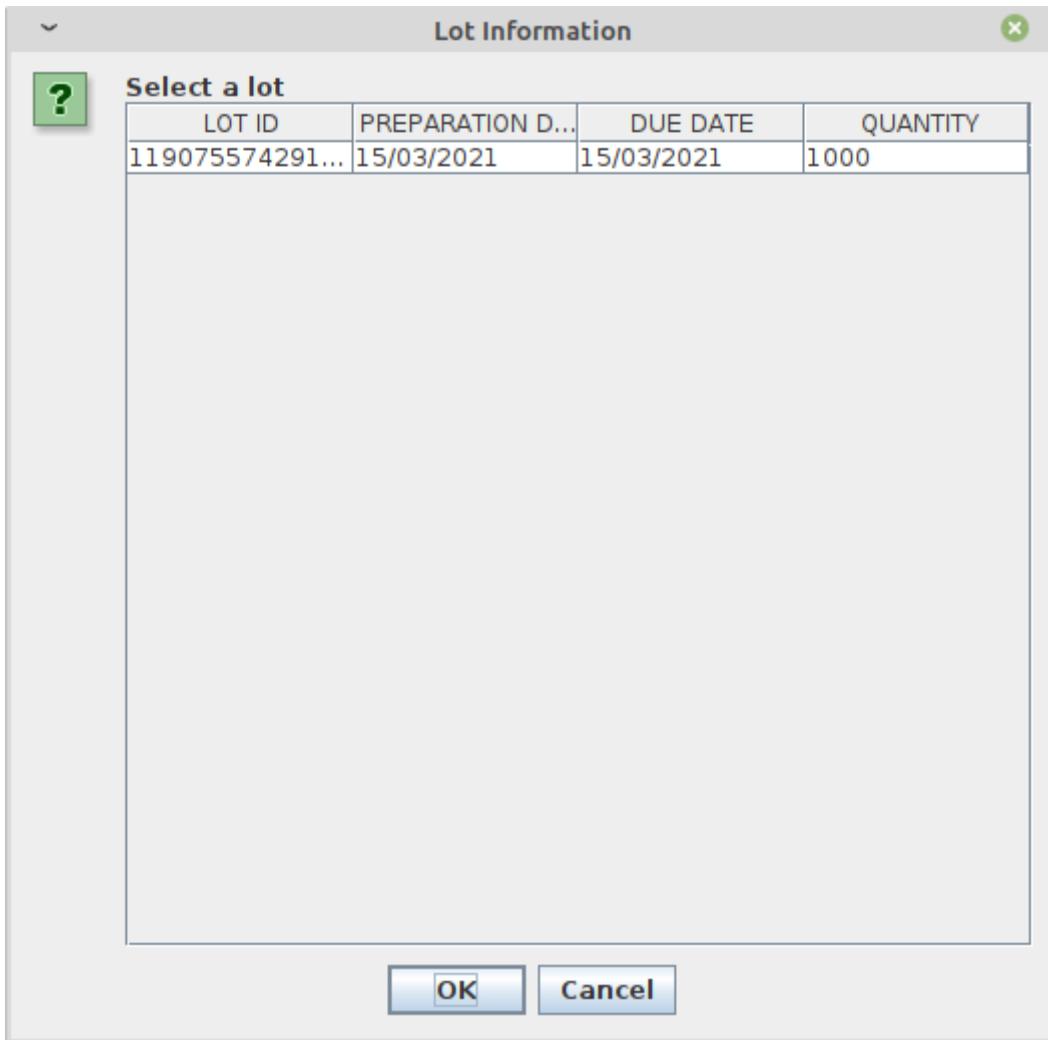
CODE	DESCRIPTION
A-23	Amonium Oxalate
A-106	Amoxycillin /Clavulanate 375mg Tab
A-226	Amoxycillin 125mg/5ml Powd. Susp 100ml
A-105	Amoxycillin 250mg Caps
P-180	Paracetamol 120mg/5ml 100ml
P-179	Paracetamol 120mg/5ml Syrup
P-415	Paracetamol 500 MG
S-173	Salbutamol 4mg Tab
D-204	Salbutamol Inhaler 10ml
D-203	Salbutamol solution for inhalation 5ml

Yes **No**

Select the desired medical and click **Yes**. This then 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 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.

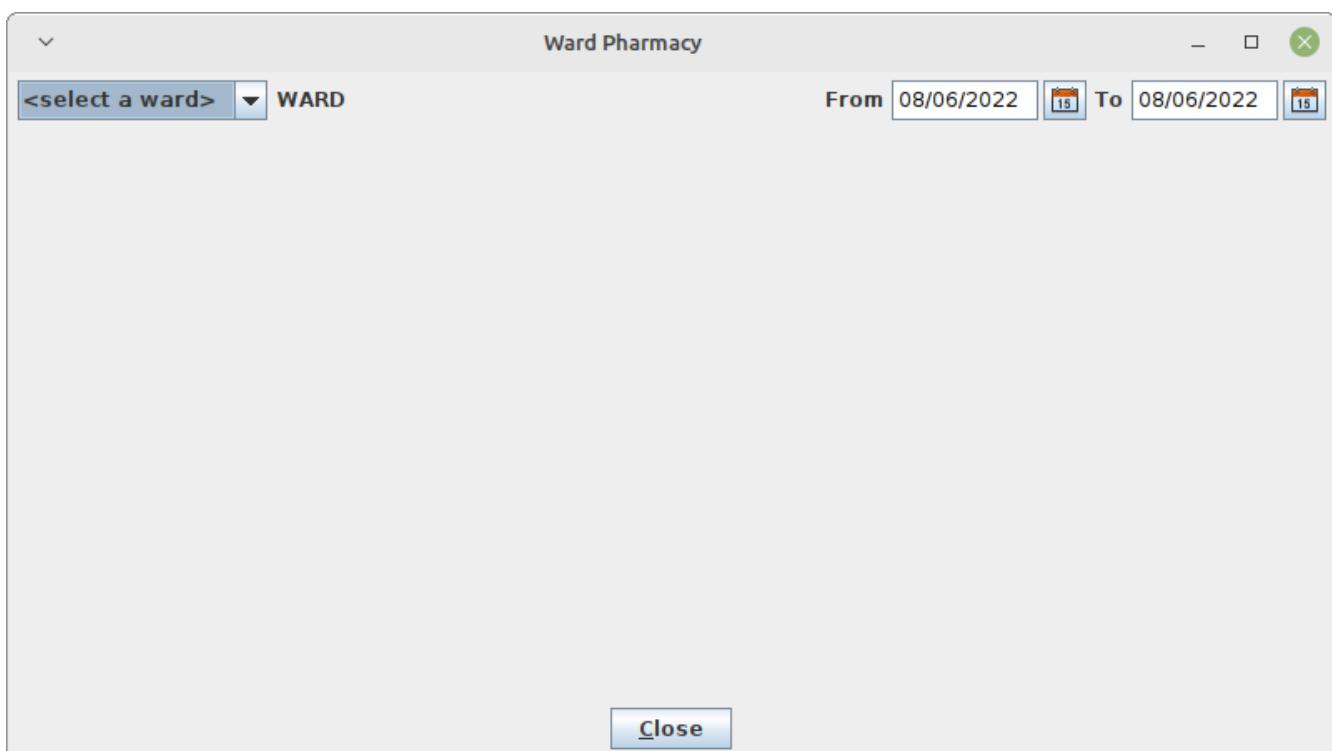
Pharmaceuticals Stock Ward functionality can be enabled or disabled by changing the *INTERNALPHARMACIES* flag in the configuration file. Ask the Administrator or refer to the *Administrator's Guide*.

4.3.2 Functions of Pharmaceuticals Stock Ward

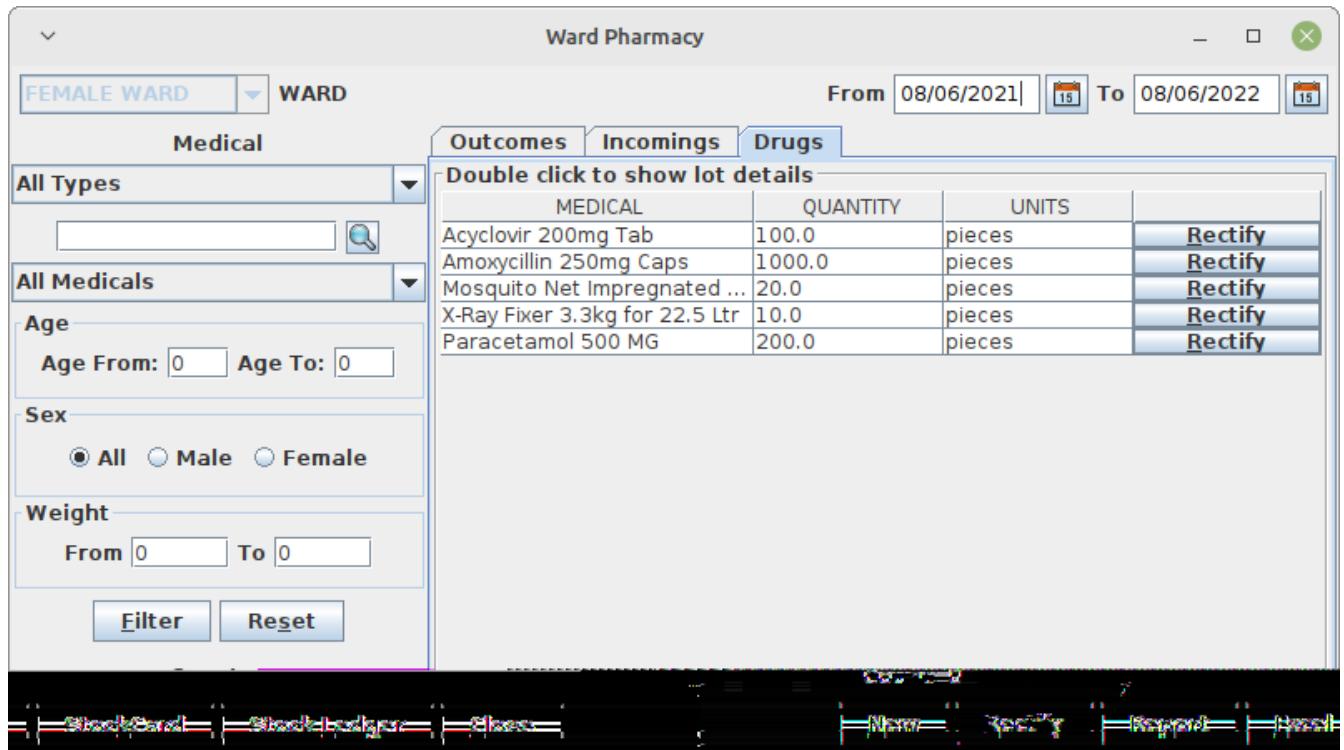
To access the functions of Pharmaceuticals, press **Pharmaceutical Stock Ward** on the Pharmacy menu shown below.



The window **Ward Pharmacy** shown below will be opened. All functions available under Pharmaceutical Stock are accessible from the **Ward Pharmacy** window 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:



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 movement for a certain pharmaceutical (can be directly selected by the list otherwise will be requested).
- Stock Ledger: show the history of movement for all pharmaceuticals within a selected date range.
- Close: exit from the **Ward Pharmacy** window.

Different than 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

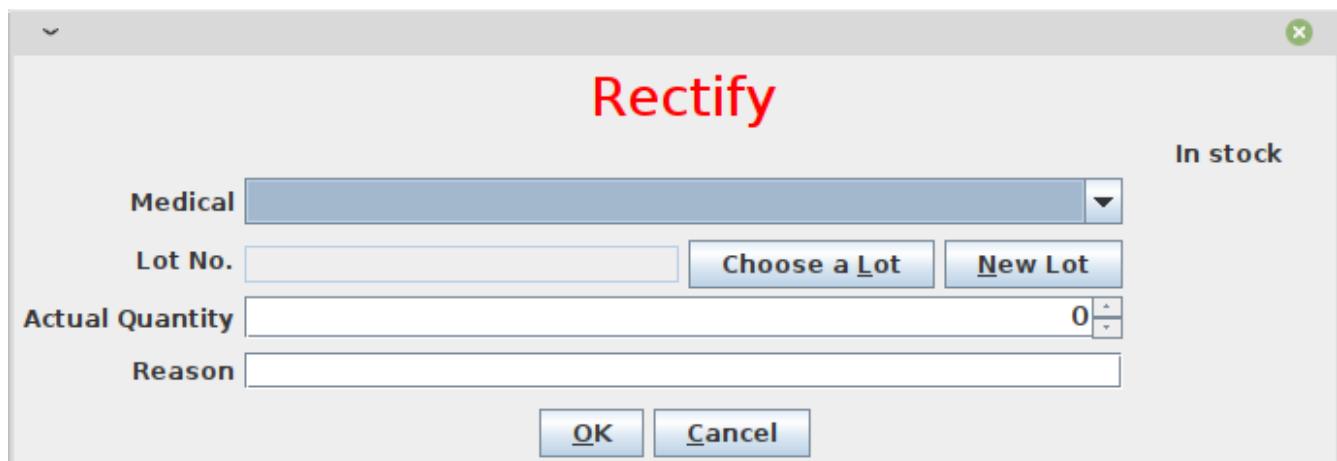
In stock

Medical:

Lot No.: Choose a Lot

Actual Quantity: 0

Reason:



- Select the medical. Once done, 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

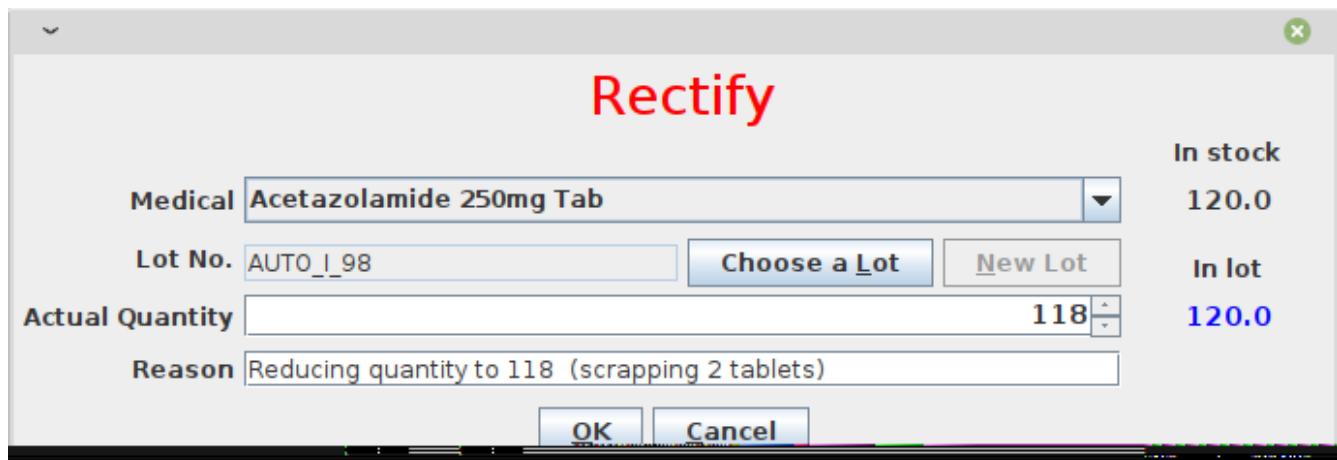
In stock

Medical: Acetazolamide 250mg Tab 120.0

Lot No.: AUTO_1_98 Choose a Lot New Lot In lot

Actual Quantity: 118

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 an 'Age' section with two input fields for 'Age From' and 'Age To', both currently set to 0. Underneath is a 'Sex' section with radio buttons for 'All', 'Male', and 'Female', where 'All' is selected. Below that is a 'Weight' section with 'From' and 'To' fields both set to 0. At the bottom are two buttons: 'Filter' and 'Reset', and 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 registration moment).
 - **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' (unchecked), 'Internal use' (unchecked), and 'Another Ward' (checked). Below this, a dropdown menu shows 'MATERNITY WARD'. To the left of the dropdown is a search bar containing 'parac' with a magnifying glass icon. To the right is a button labeled 'Medical' with a green plus sign icon. A table below the search bar lists a single item: 'Paracetamol 500 MG' under the 'MEDICAL' column, with a quantity of '10.0' and a lot number of 'AUTO...'. 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 record 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	
	15/03/2021 14:35	Depuy Darrell	7.3.3 GOT	<= 50 (NORMAL)	
Date From:	05/09/2020	Depuy Darrell	7.3.4 ALT/GPT	> 50	
Date To:	12/09/2022	Curtis Courson	8.1 OCCULT BLOOD	NEGATIVE	
		Nieves Julietta	3.1 Blood Slide (Malaria)	NEGATIVE	
		Nieves Julietta	3.21 Trypanosomiasis	NEGATIVE	
		Nieves Julietta	3.6 CSF WET PREP	NEGATIVE	
		Sara Huckleton	5.4 LEISMANIA	NEGATIVE	
		Sara Huckleton	7.4.1 CREATININA	1.4 - 2.5	
		Eddings Carmine	1.5 ESR	NORMAL	
		Geremia Dickinson	2.1 Grouping	AB RH+	
		Geremia Dickinson	7.4.1 CREATININA	<= 14 (NORMAL)	
		Kathy Willis	2.1 Blood Slide (Malaria)	NEGATIVE	
		Kathy Willis	3.6 OTHER CBS	INTERACTIVE	
		Robert Landman	2.2 Combi-Test	NEGATIVE	
		Blumberg Landman	2.1 Blood Slide (Malaria)	NEGATIVE	
		Mandy Gammiean	URINALYSIS	Multiple results	
		Gordan Coops	7.3.30 ESR	VEGA-V	
		Gordan Coops	7.7.5 ESR	VEGYA	
		Gordon Coops	7.7.5 ESR Comment	0	
		Gordon Coops	1.6 ESR/CRP	VEGA-V	
		Gordon Coops	7.7.5 ESR/CRP (ESR) FOR ADOY	VEGA-V	
		Jeanne Stevens	7.7.5 ESR/CRP (ESR) FOR ADOY FOR ADOY	VEGA-V	
		Jeanne Stevens	7.7.5 ESR/CRP (ESR) FOR ADOY FOR ADOY	VEGA-V	
		Vincent Arista	7.6 OTHER CBS	NEGATIVE	
		Vincent Arista	5.6 ESR/VA	VEGA-V	
		Vincent Arista	9.6 INR/PTT	VEGA-V	
		Gerrie Stutterheim	9.6 INR/PTT	VEGA-V	
		Gerrie Stutterheim	9.5 OTHERS EG PROTHROMBIN, FIBRINOLYTIC FACTOR, WILLE...	VEGA-V	
		Jessica Jerez	5.5 VA	VEGA-V	
		Sharon Jordan	7.7.5 CREATININA	<= 14 (NORMAL)	
		Sharon Jordan	7.7.5 CREA	0.65 (NORMAL)	
		Sharon Jordan	9.7.2 VA	POSITIVE	
		Sherry Veritas	7.7.5 CREATININA	POSITIVE	
		Sidney Adams	7.7.5 Blood Slide (Malaria)	VEGA-V	
		Sophie Green	3.1 Blood Slide (Malaria)	VEGA-V	

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"/>	
Note	<input type="text"/>						
Result							
<input type="button" value="OK"/> <input type="button" value="Print"/> <input type="button" value="Cancel"/>							

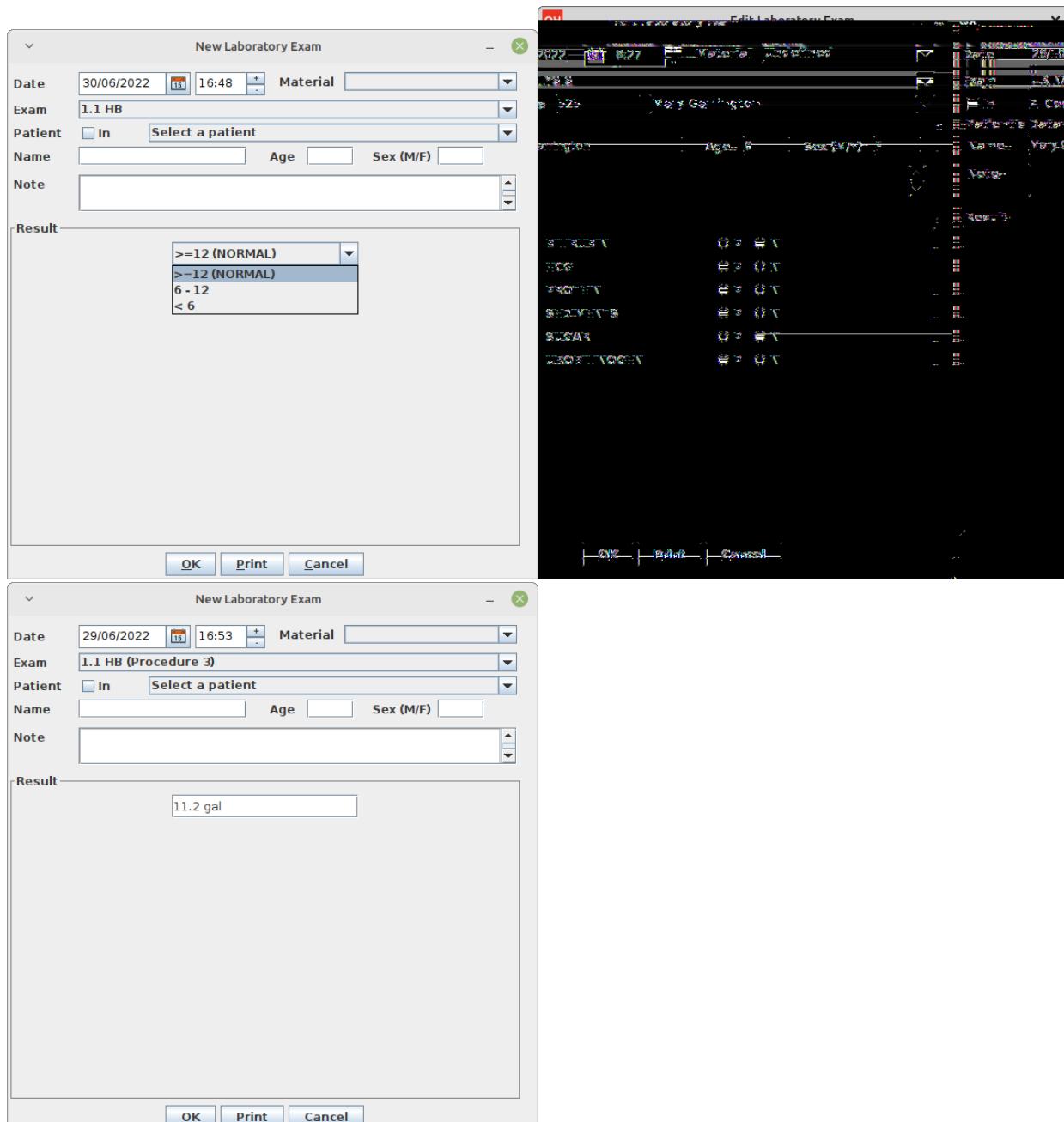
To record the visit, enter the following fields:

- **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 0-200) (*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)



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.

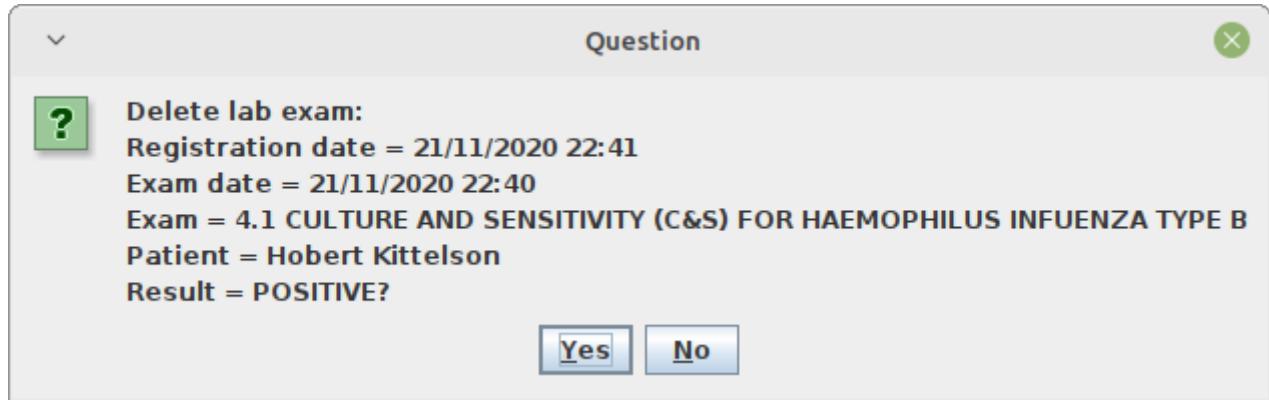
5.2.3 Modify a Laboratory Exam (Edit)

To modify an exam, highlight the exam in the **Laboratory Browser** window. Once 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. At the top, it displays the date as 21/11/2020, the exam type as 1.1 HB, and the patient name as Hutcheson Jere. Below this, there are fields for Name (Jere Hutcheson), Age (40), and Sex (M/F) (F). A note field is empty. The 'Result' section contains a dropdown menu with the following options: 6 - 12, 6 - 12, < 6, and >=12 (NORMAL). At the bottom of the dialog 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 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.

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, that the exam must be assigned to a patient previously registered in the system.

Before closing 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'), 'Material' (dropdown menu), and 'P. Code' (dropdown menu). Below these are sections for 'Patient's Data' (Name, Age, Sex (M/F)) and 'Note' (text area). A large panel labeled 'Result' is currently empty. At the bottom are three buttons: 'OK', 'Print', and 'Cancel'.

The **Patient's Data** panel cannot be modified except for the **Note** field and 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 insertion 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; a 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 are 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.

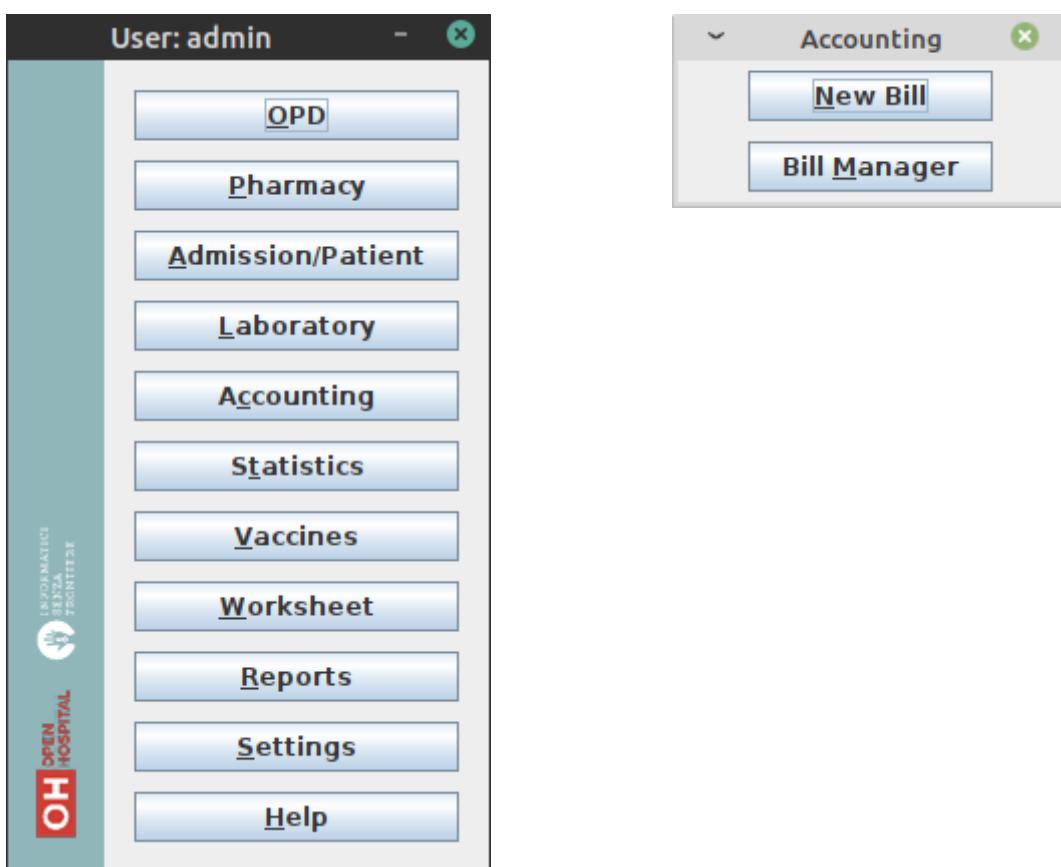
6 Accounting (Accounting)

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).

The screenshot shows a software application window titled "Patient Bills Management". At the top, there are date and time selection fields set to "09/11/2021 18:29" and a dropdown menu showing "admin". Below this is a toolbar with buttons for "Today", "New Bill", "Edit Bill", "Delete Bill", "Receipt", "Report", and "Close". A status bar at the bottom displays financial information: Paid Today: UGX 0, Paid Period: UGX 102, admin Today: 0, and admin Period: 371.

Patient Bills Management										
Bills		Pending		Closed						
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	

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

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

- **Today:** (button on top of the window) shows in the **Data table** only the bills for the current day.
- **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 **Patient 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**

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				admin
Patient					List	Basic	
TOTAL		UGX	0			OPD	
ITEM		QTY	AMOUNT			<ul style="list-style-type: none"> Medical Operation Exam Other Custom Remove Item 	
TO PAY		UGX	0			<ul style="list-style-type: none"> Payment Refund Payment Receipt Remove Payment Give Change Save Paid Close 	
BALANCE		UGX	0				

To insert a new bill **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

Search Patient <input type="text"/>	New Patient																																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">CODE</th> <th style="width: 90%;">NAME</th> </tr> </thead> <tbody> <tr><td>519</td><td>Jeanna Rickember</td></tr> <tr><td>518</td><td>Jeremy Lindon</td></tr> <tr><td>517</td><td>Maria Njoko</td></tr> <tr><td>516</td><td>Genna Susterlind</td></tr> <tr><td>515</td><td>Alvaro Robertson</td></tr> <tr><td>514</td><td>Mario Rossi</td></tr> <tr><td>513</td><td>Makenzie Everton</td></tr> <tr><td>512</td><td>Millman Enriqueta</td></tr> <tr><td>511</td><td>Henderson Alba</td></tr> <tr><td>510</td><td>Racuba Scottie</td></tr> <tr><td>509</td><td>Ventier Asia</td></tr> <tr><td>508</td><td>De Koenig Melissa</td></tr> <tr><td>507</td><td>Westermann Fred</td></tr> <tr><td>506</td><td>Zabel John</td></tr> <tr><td>505</td><td>Curtney Gina</td></tr> <tr><td>504</td><td>Froue Jane</td></tr> <tr><td>503</td><td>Sturgeon Charlie</td></tr> <tr><td>502</td><td>Furlong Merryman</td></tr> <tr><td>500</td><td>Matthews Ruth</td></tr> <tr><td>499</td><td>Vessin Jordan</td></tr> <tr><td>498</td><td>Falky Mady</td></tr> <tr><td>497</td><td>Vernon Reklin</td></tr> <tr><td>496</td><td>Angelo Jaime</td></tr> <tr><td>495</td><td>Rodriguez Oscar</td></tr> <tr><td>494</td><td>James Veronica</td></tr> <tr><td>493</td><td>Musso Kina</td></tr> <tr><td>492</td><td>Ballantine Lashawna</td></tr> <tr><td>491</td><td>Holter Josette</td></tr> <tr><td>490</td><td>Cairo Tawnya</td></tr> <tr><td>489</td><td>Morning Mellisa</td></tr> <tr><td>488</td><td>Glennis Isabelle</td></tr> <tr><td>487</td><td>Iohansen Tamia</td></tr> </tbody> </table>		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	Iohansen Tamia
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487	Iohansen Tamia																																																																		
<div style="border: 1px solid #ccc; width: 100px; height: 100px; margin-bottom: 10px;"></div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Name: Age: Sex: TOB: </div> <div style="width: 45%;"> Tax Number ID Address City </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Parents </div> <div style="width: 45%;"> Next of Kin Telephone </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Blood Type </div> <div style="width: 45%;"> Insurance </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Marital Status </div> <div style="width: 45%;"> Profession </div> </div> <div style="border: 1px solid #ccc; width: 100%; height: 40px; margin-top: 10px;"></div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> Select Cancel </div>																																																																			

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 is not required the quantity (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	

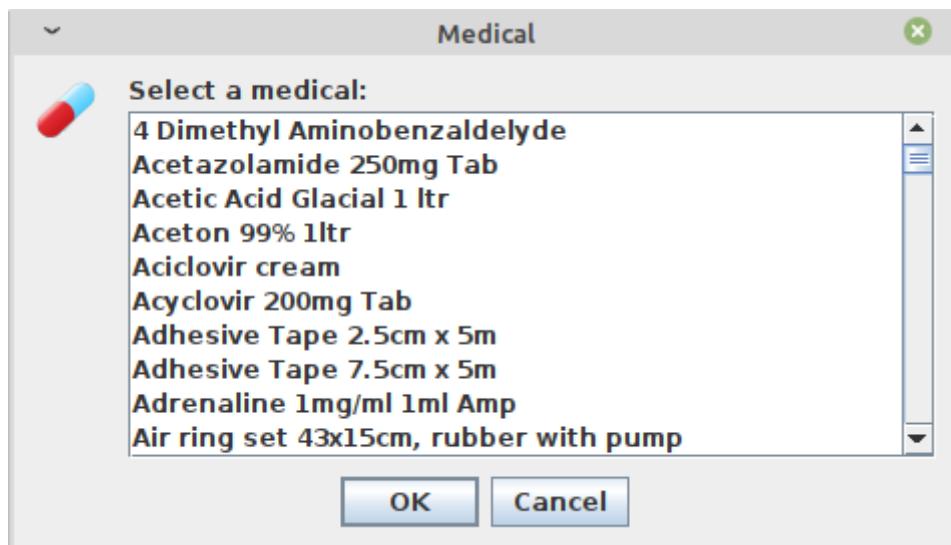
Buttons panel:

- + 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:



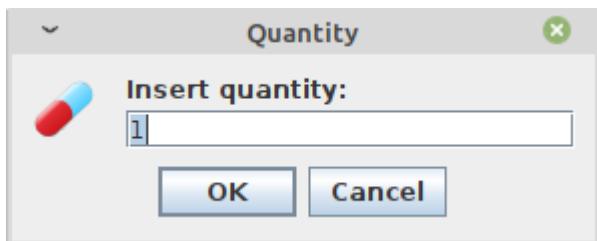
Using the mouse, highlight the required pharmaceutical (medical).

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:

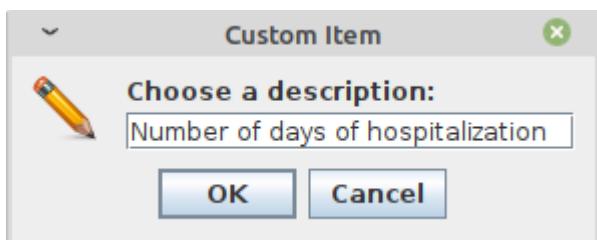


The **Buttons panel** of the **Quantity** window has the following choices:

- **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 below 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.

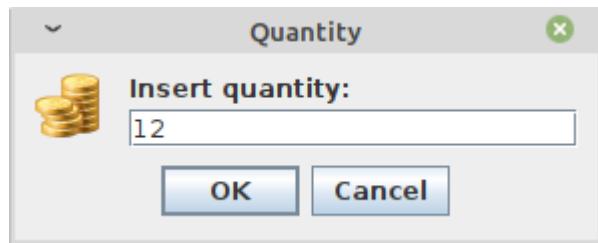
- Cancel: return to the **New Patient Bill** window without inserting any bill entry.

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 [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 is “12” 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)

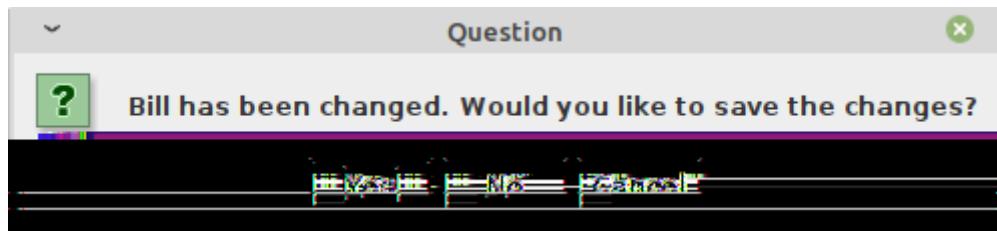
If the patient is going to pay the complete amount of the bill press the **Paid** button. If the balance is not equal to zero the system automatically adds a payment in the payments list equal to the balance and sets the bill as “C” (Closed).

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.

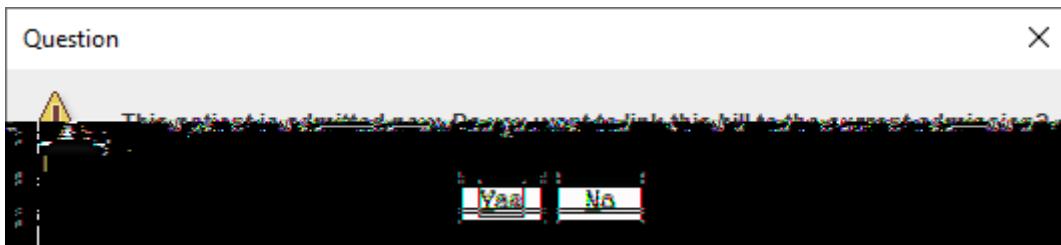
Edit Patient Bill: 46

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="Delete"/>	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](#)

Case 2)



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 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 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 belongs 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="▼"/>	admin	FEMALE 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

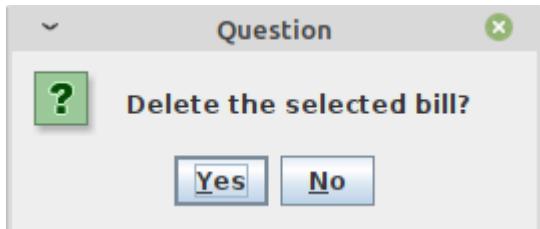
The relation of a bill with a patient admission is found in the last column in "Patient Bills Management" windows:

Patient Bills Management

admin	Today	From	09/11/2021	To	09/11/2021	October	2022	
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99
100	101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116	117
118	119	120	121	122	123	124	125	126
127	128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143	144
145	146	147	148	149	150	151	152	153
154	155	156	157	158	159	160	161	162
163	164	165	166	167	168	169	170	171
172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189
190	191	192	193	194	195	196	197	198
199	200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215	216
217	218	219	220	221	222	223	224	225
226	227	228	229	230	231	232	233	234
235	236	237	238	239	240	241	242	243
244	245	246	247	248	249	250	251	252
253	254	255	256	257	258	259	260	261
262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279
280	281	282	283	284	285	286	287	288
289	290	291	292	293	294	295	296	297
298	299	300	301	302	303	304	305	306
307	308	309	310	311	312	313	314	315
316	317	318	319	320	321	322	323	324
325	326	327	328	329	330	331	332	333
334	335	336	337	338	339	340	341	342
343	344	345	346	347	348	349	350	351
352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369
370	371	372	373	374	375	376	377	378
379	380	381	382	383	384	385	386	387
388	389	390	391	392	393	394	395	396
397	398	399	400	401	402	403	404	405
406	407	408	409	410	411	412	413	414
415	416	417	418	419	420	421	422	423
424	425	426	427	428	429	430	431	432
433	434	435	436	437	438	439	440	441
442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459
460	461	462	463	464	465	466	467	468
469	470	471	472	473	474	475	476	477
478	479	480	481	482	483	484	485	486
487	488	489	490	491	492	493	494	495
496	497	498	499	500	501	502	503	504
505	506	507	508	509	510	511	512	513
514	515	516	517	518	519	520	521	522
523	524	525	526	527	528	529	530	531
532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549
550	551	552	553	554	555	556	557	558
559	560	561	562	563	564	565	566	567
568	569	570	571	572	573	574	575	576
577	578	579	580	581	582	583	584	585
586	587	588	589	590	591	592	593	594
595	596	597	598	599	600	601	602	603
604	605	606	607	608	609	610	611	612
613	614	615	616	617	618	619	620	621
622	623	624	625	626	627	628	629	630
631	632	633	634	635	636	637	638	639
640	641	642	643	644	645	646	647	648
649	650	651	652	653	654	655	656	657
658	659	660	661	662	663	664	665	666
667	668	669	670	671	672	673	674	675
676	677	678	679	680	681	682	683	684
685	686	687	688	689	690	691	692	693
694	695	696	697	698	699	700	701	702
703	704	705	706	707	708	709	710	711
712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729
730	731	732	733	734	735	736	737	738
739	740	741	742	743	744	745	746	747
748	749	750	751	752	753	754	755	756
757	758	759	760	761	762	763	764	765
766	767	768	769	770	771	772	773	774
775	776	777	778	779	780	781	782	783
784	785	786	787	788	789	790	791	792
793	794	795	796	797	798	799	800	801
802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819
820	821	822	823	824	825	826	827	828
829	830	831	832	833	834	835	836	837
838	839	840	841	842	843	844	845	846
847	848	849	850	851	852	853	854	855
856	857	858	859	860	861	862	863	864
865	866	867	868	869	870	871	872	873
874	875	876	877	878	879	880	881	882
883	884	885	886	887	888	889	890	891
892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909
910	911	912	913	914	915	916	917	918
919	920	921	922	923	924	925	926	927
928	929	930	931	932	933	934	935	936
937	938	939	940	941	942	943	944	945
946	947	948	949	950	951	952	953	954
955	956	957	958	959	960	961	962	963
964	965	966	967	968	969	970	971	972
973	974	975	976	977	978	979	980	981
982	983	984	985	986	987	988	989	990
991	992	993	994	995	996	997	998	999

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.

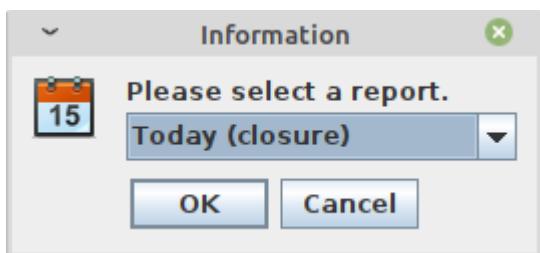
6.2.4 Receipt (Receipt)

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)

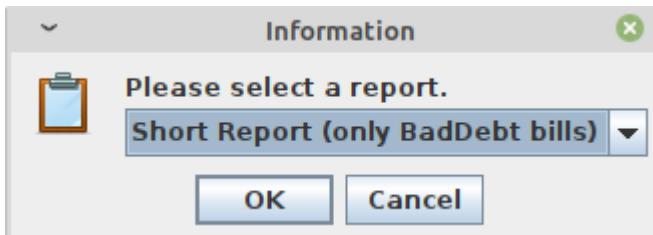
The Open Hospital accounting module comes with a set of reports hereby listed:

- **Today (Closure):** a report that shows the current user incomes
- **Today:** a report that shows a statement with all paid and unpaid bills within 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
- **Other month:** a report that shows a statement with all paid and unpaid bills within a specified month



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
- **OH23A1-open bills list:** a report that shows the list of opened bills (pending bills)



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

Sl No.	Date	Description	Amount	Date	Amount	Date	Amount
1	(20/11/20)	151 - Hen Velder	135.00	20/11/2020		135.00	
2	(20/11/20)	265 - Venish Ketting	28.00	23/11/2020		-2.00	
3	(20/11/20)	900 - Charles Skye	10.00	20/11/2020	120.00	-110.00	
4	(20/11/20)	623 - Rosey Hoogvlieg	68.00	20/11/2020		68.00	
5	(20/11/20)	123 - Kristie Kydseen	66.00	20/11/2020		66.00	
6	(20/11/20)	501 - Ross Goss	12.00	20/11/2020	60.00	-48.00	
7	(20/11/20)	157 - Richard Gauvin	26.00	20/11/2020		26.00	
8	(20/11/20)	141 - Sandra Lutz	100.00	23/11/2020	300.00	-200.00	
9	(20/11/20)	181 - Leonard Baggett	65.00	20/11/2020	60.00	-35.00	
10	(20/11/20)	129 - Vicki Royle	105.00	23/11/2020	30.00	145.00	
11	(20/11/20)	288 - Eric Jolstra	226.00	20/11/2020	100.00	126.00	
12	(20/11/20)	516 - Yvonne Ross'	66.00	20/11/2020		66.00	
			985.00		920.00	275.00	



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:

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	UOK
admin	46	09/11/2021 17:44	539	Philomena Redondo	102.0	09/11/2021 17:44	O	72.0	L
		PAID Today	80.0	PAID Today	80.0	09/11/2021 18:29	C	0.0	UOK
		PAID Period:	80.0	PAID Period:	80.0	09/11/2021 17:44	O	72.0	L
		UNPAID Today	102.0	UNPAID Today	102.0	09/11/2021 17:44	O	72.0	L
		UNPAID Period:	102.0	UNPAID Period:	102.0	09/11/2021 17:44	O	72.0	L

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:

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	UOK
admin	46	09/11/2021 17:44	539	Philomena Redondo	102.0	09/11/2021 17:44	O	72.0	L
admin	45	09/11/2021 17:22	537	Wally Simpsons	60.0	09/11/2021 17:22	C	0.0	UOK
		PAID Today	80.0	PAID Today	80.0	09/11/2021 18:29	C	0.0	UOK
		PAID Period:	80.0	PAID Period:	80.0	09/11/2021 17:44	O	72.0	L
		UNPAID Today	102.0	UNPAID Today	102.0	09/11/2021 17:44	O	72.0	L
		UNPAID Period:	102.0	UNPAID Period:	102.0	09/11/2021 17:44	O	72.0	L

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.

Patient Vaccine Browser

DATE	PATIENT	SEX	AGE	VACCINE	VACCINE TYPE

Select a vaccine type

All Type

Select a vaccine

All vaccines

Date From: 27/04/2022

Date To: 27/04/2022

Age From: 0

Age To: 0

Select Sex

All Male Female

Count: 0

The following functions are accessible from the **Buttons panel** of the window **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			21/11/2020	Child
Date To:	26/07/2021			21/11/2020	Child
Age From:	0			21/11/2020	Child
Age To:	0			21/11/2020	Child
Select Sex				20/11/2020	Pregnant
<input checked="" type="radio"/> All <input type="radio"/> Male <input type="radio"/> Female				20/11/2020	Pregnant
Search				20/11/2020	Child
Count: 26				20/11/2020	Child
				20/11/2020	Child
				20/11/2020	Child
				20/11/2020	Child
				20/11/2020	No pregnant
				20/11/2020	Pregnant
				20/11/2020	Child
				20/11/2020	Child
				19/11/2020	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		Progressive	27				
Search Patient	<input type="text"/>		Select a patient					
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)						
	OK	Cancel						

To record a new patient vaccination enters 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 alternatively 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.

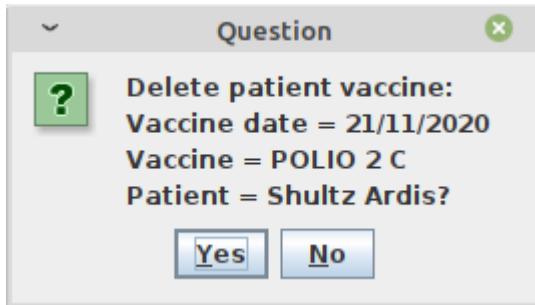
Once all the changes are made the **Buttons panel** has the following choices:

- **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:

Select a vaccine type	DATE	PATIENT	SEX	AGE	VACCINE	VACCINE TYPE
	15/03/2021	Vessin Jordan	M	1	POLIO 1 C	Child
	21/11/2020	Alexander Kennedy	Y	36	VACCINE 205-2	Child
	21/11/2020	Yannick Gaspard	Y	36	VACCINE 205-2	Child
	23/11/2020	Isabel Costa	Y	37	POLIO 3 C	Child
	23/11/2020	Orlando Almeida	Y	59	VACCINE 205-2	Child
	23/11/2020	Howard Stuart	Y	26	YAS 1 S	Child
	23/11/2020	Kochmarie Emily	Y	2	POLIO 3 C	Child
	23/11/2020	Leontine Valda	Y	9	POLIO 3 C	Child
	23/11/2020	Sergeant Yvonne	Y	2	YAS 1 S	Child
	23/11/2020	Wendy Alvaro	Y	11	POLIO 3 C	Child
	23/11/2020	Vessin Yvonne	Y	27	VACCINE 205-2	Child
	29/11/2020	Carmelo Yvanne	Y	29	VACCINE 205-2	Child
	29/11/2020	Barbara Camelia	Y	29	205-2	Child
	29/11/2020	Al Vannen	Y	25	205-3	Child
	29/11/2020	Edmund Ophelia	Y	27	POLIO 1 C	Child
	29/11/2020	Veronica Veronika	Y	2	205-2	Child
	29/11/2020	Carina Camille	Y	25	205-2	Child
	29/11/2020	Benedetta Beatrice	Y	27	VACCINE 205-2	Child
	29/11/2020	Davide Domenico	Y	2	YAS 1 S	Child
	29/11/2020	Andrea Andrea	Y	30	3CC	Child
	29/11/2020	Victor Silvano	Y	72	VACCINE 205-2	No Segment
	29/11/2020	Alessandro Giacomo	Y	30	VACCINE 205-2	No Segment
	29/11/2020	Yannick Yannick	Y	38	3CC	Child
	29/11/2020	Yannick Yannick	Y	35	POLIO 3 C	Child
	29/11/2020	Yannick Yannick	Y	30	VACCINE 205-2	No Segment

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*



An OPD registration can be started from here if the OPDEXTED 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** all of the patients currently present in the system.

Patient Browser							
Admission Status	CODE	NAME	AGE	SEX	CITY / ADDRESS / TELEPHONE / NOTE	WARD	
All	542	Jeff Buskey	21y 5m 4d	M	Kernigan - Ruster Street 27 - +851344333	MALE WARD	
	541	Philomena Jenkins	38y 2m 27d	F	Wellington - Western park N. 23 - +72145462545		
	540	Redy Villen	43y 7m 14d	F	Bloomingdale - Willer road 81 - +393134341	FEMALE WARD	
	539	Philomena Redondo	40y 1m 29d	F	Muoni - Westfield district - +180287435746545	FEMALE WARD	
	538	Veronica Erini	2y 6m 12d	F	Uroha - New place 1 - +2154215434314		
	537	Wally Simpsons	46y 4m 20d	M	New Village - Remsy Av. 1 - +394331112313		
	536	Geoffrey Adenilson	52y 8m 13d	M	Juskey - Jefferson lane 258 - +1443521111		
	535	Kenny Flanagan	56y 3m 25d	M	Wally - First Avn. 762 - +123451354		
	534	Mirta Veluma	41y 4m 20d	F	Alimbu - Ambalon way - +39432313123		
	533	Jennifer Stanton	26y 4m 12d	F	Madison - Fersy Plaza 1 - +39	FEMALE WARD	
	532	Kevin Aramburu	43y 10m 2...	M	Medington - St. Regents Road 45 - +21.112431545		
	531	Maximilian Huntis	55y 9m 27d	M	Restville - Wilson road 51 - +2.23131312		
	530	Leanina Smith	25y 3m 2d	F	Springfield - Flanders Rd - +12443111		
	529	Sara Huckleton	2y 6m 28d	F	Kulele - Long Road 1 - +39		
	528	Kenty Willis	16y 2m 10d	F	Ijkney - Furje Street 81 - +3914413		
	527	Marcus Kellop	54y 7m 11d	M	Mirly - Fullister Pl. 45/b - +396153134		
	526	Genina Justterin	37y 9m 12d	F	Uribe - Ghoulam Rd 231 - +393452432		
	525	Mary Garrington	2y 1m 6d	F	Kendring - Ganston - +393413231		
	524	Geremia Dickinson	69y 1m 20d	M	Kellog - Springfield - +396131211		
	523	Quinalan Coors	8y 1m 22d	M	Derbyshire - Franklin 12 - +416824999		
	522	Harry Colterson	63y 7m 14d	M	Otley - Westerman St. 12 - +912314411	MALE WARD	
	521	Betta Jamison	12y 1m 4d	F	Kensington - Kinney Rd. 43 - +39		
	520	Rochester Lenry	2y 6m 1d	M	Warengton - Letterman St. 512 - +00519994		
	519	Jeanna Rickember	5y 3m 18d	F	Justin - Lavor Road 62 - +2243143213		
	518	Jeremy Lindon	59y 8m 22d	M	Misurel - Stenton Plaza 151 - +394252422		
	517	Maria Njoko	22y 1m 25d	F	West Kurtika - Monga Road 56 - +2434334		
	516	Genna Susterlind	47y 4m 5d	F	Rudkenny - Genev Road 77 - +3813144111		
	515	Alvaro Robertson	13y 4m 12d	M	Guarinton - Courtney ST. 27 - +39		
	514	Mario Rossi	29y 10m 1...	M	Roma - Via Verdi - +397653431		
	513	Makenzie Everton	29y 4m 7d	M	Abrlington - Wayland 21 - +3924534314		



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.
- 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 a **DICOM** function that allows for 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 that 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	Glennis Isabelle	6y 10m 9d	F	Grove - Downers	
317	Isaiah Isabelle	72y 10m 9d	M	GA - Cartersville	

Admission Status
All

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

Age
From: To:

Sex
All

Search Key
isabe

New Edit Delete Admission Examination QPD Bill Data 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

Memory usage can be optimized when the number of registered patients becomes huge 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 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

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	7y 9m 9d	F	Grove - Downers Rd south - +34123443	
317	Isaiah Isabelle	74y 0m 24d	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
isabe 

Buttons: New, Edit, Delete, Admission, Examination, OPD, Bill, Data, 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"/>
Note <div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div>	

OK **Cancel**

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

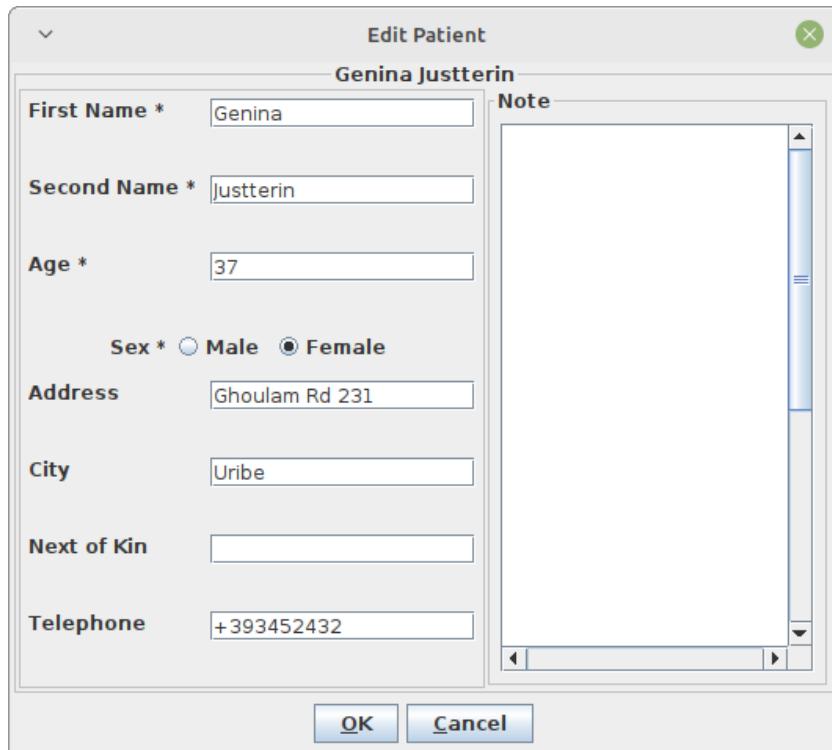
When finished entering the data the **Buttons panel** has two choices:

- **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.

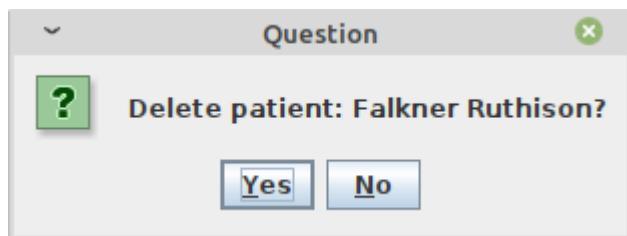


When finished modifying the data in the **Buttons panel** there are two choices:

- 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 (+39), and Blood Type, Marital Status, Profession, Father's Name, Mother's Name, Parents Together, and Has Insurance. To the right is a 'Patient Photo' section with a placeholder image and a 'Load File' button, and a 'Note' section with a scrollable text area.

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:

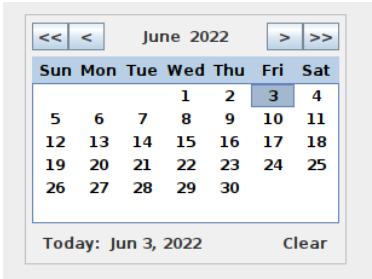
Three examples of age entry methods:

- Age *
Age BirthDate Description
Years 0 Months 0 Days 0
- Age *
Age BirthDate Description
Birth Date 12/03/2000 18
22y 2m 22d
- Age *
Age BirthDate Description
Early Childhood 0 Months

Regardless of the way 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 (it 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:

New Patient

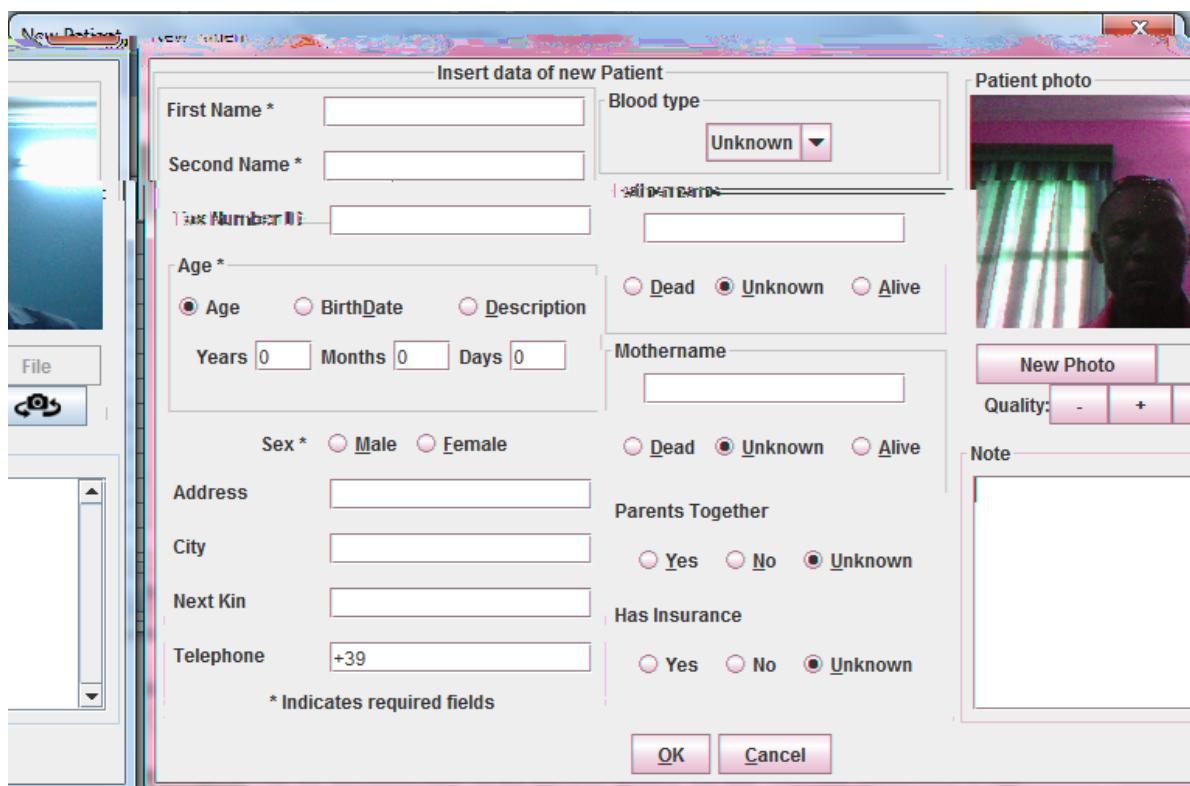
Insert data for a new patient

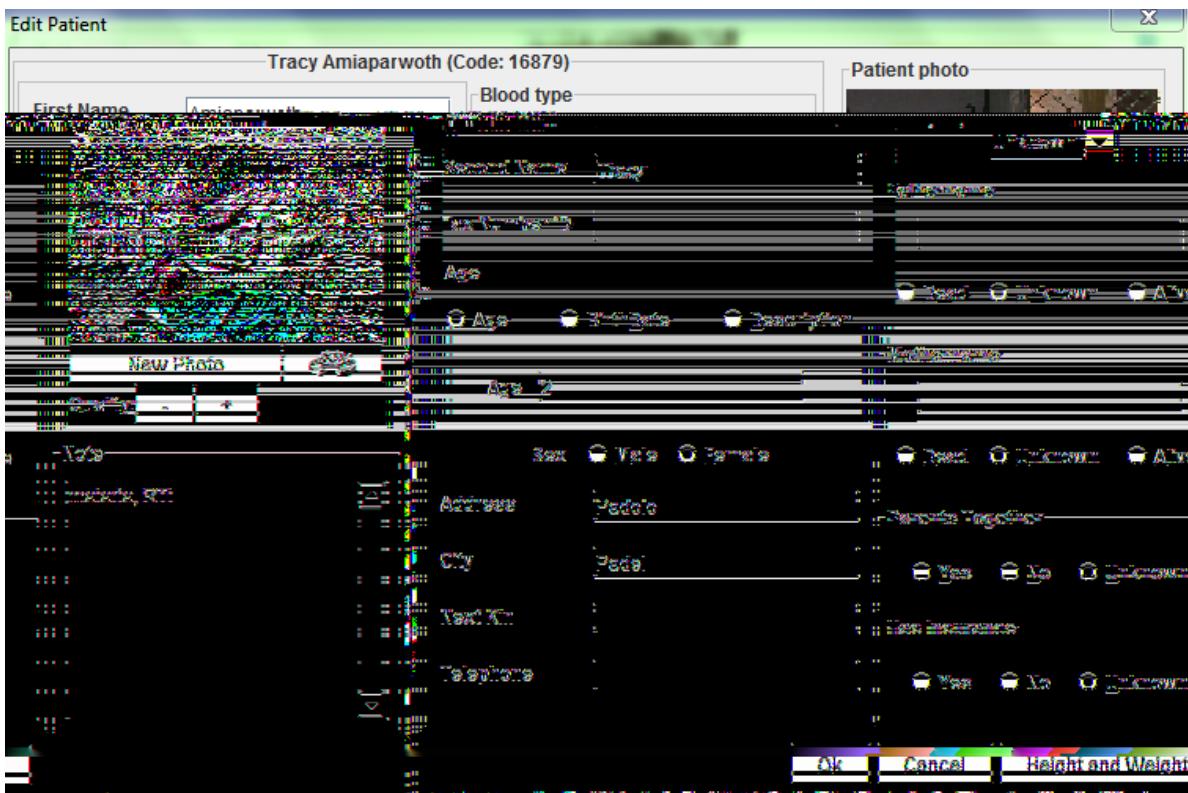
First Name *	<input type="text"/>	Blood Type	<input type="button" value="Unknown"/>
Second Name *	<input type="text"/>	Marital Status	<input type="button" value="Unknown"/>
Tax Number ID	<input type="text"/>	Profession	<input type="button" value="Unknown"/>
Age *			
<input checked="" type="radio"/> Age <input type="radio"/> BirthDate <input type="radio"/> Description			
Years <input type="text" value="0"/> Months <input type="text" value="0"/> Days <input type="text" value="0"/>			
Sex *	<input type="radio"/> Male	<input checked="" type="radio"/> Female	
Address	<input type="text"/>		
City	<input type="text"/>		
Next of Kin	<input type="text"/>		
Telephone	<input type="text" value="+39"/>		
* Indicates required fields			
<input type="button" value="OK"/> <input type="button" value="Cancel"/>			

Patient Photo

Note

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.





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 (CAM)

If nothing happens when pressing the **New Photo** button, press the **switch camera** button (CAM) 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*.

8.5 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: 528, Name: Kenty Willis, Age: 15y 10m 12d, Sex: F, TOB: B-. Below this are sections for Tax Number ID, Address (Furja Street 81), City (Jikney), Parents, Next of Kin (Telephone +3914413), Blood Type (B-), Insurance, Marital Status (Single), and Profession. On the right, the 'Admission / Discharge' tab is selected. It contains fields for Ward, From Health Unit, Progressive in Year, Admission Date (set to 28/05/2022 at 14:13), Admission Type, Diagnosis IN, Discharge Date, Bed Days, Discharge Type, and Diagnosis OUT (with three entries n. 1, n. 2, n. 3). A checkbox for Malnutrition is also present. At the bottom, there are Save, Examination, and Close buttons. A note at the bottom right indicates 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 done entering data 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 Huckleton	0y 9m 6d	F	Kulele - Long Road 1 - +39	
	528	Kenty Willis	14y 6m 20d	F	Jilkey - Furja Street 81 - +3914413	CHILDREN WA...
	527	Marcus Kellop	52y 9m 27d	M	Mirly - Fullister Pl. 45/b - +396153134	
	526	Genina Justterin	36y 5m 30d	F	Uribe - Ghoulam Rd 231 - +393452432	
	525	Mary Garrington	0y 7m 17d	F	Kendring - Ganston - +39	
	524	Geremla Dickinson	67y 8m 20d	M	Kellog - Springfield - +39	
	523	Ruthlin Coors	4y 10m 14d	F	Dorothy - Franklin St 14 - +4189243389	
	522	Elly Colwin	52y 7m 24d	F	Orby - Woko - 10y 2m 24d - +39	WA - N.W.E.
	521	Bethel Danson	0y 7m 24d	F	Karlington - Courtney St. 27 - +39	
	520	Rebecca - Army	0y 7m 20d	F	Warrington - after Main St. 27 - +005-32244	
	519	Janira Wilkes	3y 10m 22d	F	Ward - Ward 62 - 270C31-CP-3	
	518	Georgy - Indon	53y 3m 18d	F	Vicile - 818-011-328-3 - +327259777	
	517	Yaro Voco	20y 9m 2d	F	West - C - 60 - Yonge - 29 - -2020-032	
	516	Genna Sustained	65y 3m 2d	F	Luckenny - Gevey Road 77 - +38' 37' CC	
	515	Averio Robertson	2y 1m 30d	F	Clifton - Courtney St. 27 - +39	
	514	Yaro Ross	28y 10m 2d	F	Roma - Via Verdi - +39793243	
	513	Vacancy - Fenton	27y 2m 22d	F	Abington - Wayland 27 - +32725343-7	
	512	Wimmen Enrique	80y 10m 2d	F	Crossing - Farney St. 35	
	511	Enderson Able	35y 10m 2d	F	Street - South Ford	
	510	Decidue Scuttle	62y 10m 2d	F	Valley south - Montgomery road 21 - +12-0281-5L	

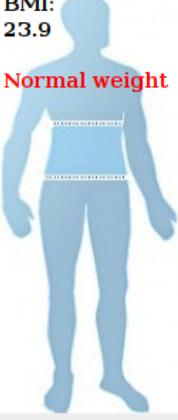
8.5.2 Patient Examination

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 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

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 were 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 by finding the difference between 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 sidebar with patient 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]. The main panel has tabs: 'Admission / Discharge' (selected), 'Operation', 'Delivery', and 'Note'. Under 'Admission / Discharge': Ward (MATERNITY WARD), From Health Unit: [redacted], Progressive in Year * (1825), Admission Date * (02/11/2020), Admission Type * (SELF), Malnutrition checkbox (unchecked). Under 'Discharge Date': Discharge Date (04/12/2020), Bed Days (32), Discharge Type (REFERRED). Under 'Diagnosis -IN-': Diagnosis field (Acute Flaccid Paralysis) with a search icon. Under 'Diagnosis -OUT-': Three rows (n. 1, n. 2, n. 3) each with a diagnosis field and a search icon. A note at the bottom right says '* Indicates required fields'. At the bottom are Save, Examination, and Close buttons.



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

When all the data has been entered 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:

8.6 OPD (OPD)

If the ***OPDEXTENDED*** 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' showing admissions and outpatient visits. Below the table are tabs for Exams, Operations, and Drugs. At the bottom, there 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.

The screenshot shows the 'New Admission' window. On the left, there's a patient summary with code 339, name Jack Lupe, age 44y 3m 28d, sex M, and a placeholder TOB. Below this are sections for Tax Number ID, Address (Fall road N. 782), City (River town), Parents, Next of Kin, Telephone, Blood Type, Insurance, Marital Status, and Profession. A 'Patient Notes' section is also present. The main right panel contains fields for Ward (MALE WARD), From Health Unit, Progressive in Year (734), and a checkbox for Malnutrition. It includes sections for Admission Date (25/09/2020, 11:28), Admission Type (SELF), Diagnosis -IN- (Gastro-intestinal DISEASEss (non infective)), Discharge Date (11/10/2020, 14:30), Bed Days (16), Discharge Type (NORMAL DISCHARGE), and Diagnosis -OUT- (n. 1: Gastro-intestinal DISEASEss (non infective), n. 2, n. 3). At the bottom are Save, Examination, and Close buttons, with a note that asterisks indicate required fields.

When the changes are complete 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.

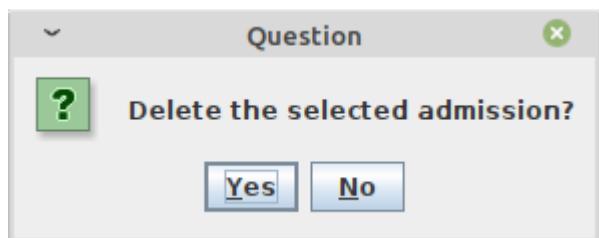
The screenshot shows the 'Edit OPD Registration' window. At the top, there are checkboxes for Re-Attendance (unchecked), New Admittance (checked), Referral (unchecked), and Referred To (unchecked). The OPD No. is 134. The main area contains fields for Admittance Date (02/11/2020, 8:55), Search (Jack Lupe), Disease Type (2. OTHER INFECTIOUS/COMMUNICABLE DISEASES), Diagnosis (Malaria), Diagnosis n.2 (full list), and Diagnosis n.3 (full list). A 'Notes & Symptoms' pane is on the right. Below these are fields for Next visit date, Patient (Patient code: 339), and Operation. The Patient section shows details like First Name (Jack), Last Name (Lupe), Address (Fall road N. 782), City (River town), Next of Kin, Age (44y 3m 28d), and Sex (Male). At the bottom are OK, Examination, and Cancel buttons.

When the changes are complete 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.

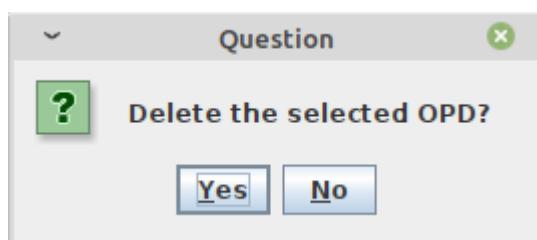


The **Buttons panel** has the following choices:

- **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 that have concerns about malnutrition (malnutrition field activated in **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:

The screenshot shows a software interface titled "Malnutrition Browser". At the top right is a green circular close button with a white "X". Below the title is a table with four columns: "FURTHER DATE", "APPROVAL DATE", "HEIGHT", and "WEIGHT". The table contains three rows of data:

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

At the bottom of the window are four buttons: "New", "Edit", "Delete", and "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:

New Malnutrition

Date of this control: 20/01/2013

Date of the next control: 20/02/2013

Weight: 6.0

Height: 1.70

OK Cancel

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 4m 15d
Sex: M

TOB:

Tax Number ID

Address City

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

Exams Operations Drugs

Open Chart Admission Chart Discharge Chart Summary Report

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.

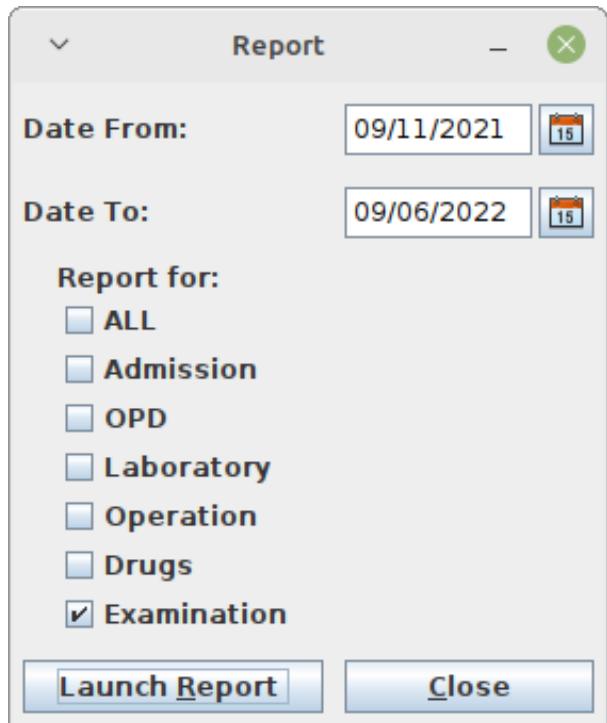
The **Buttons panel** has the following choices:

- **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.
- **DICOM**: launch the DICOM 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 DICOM 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.

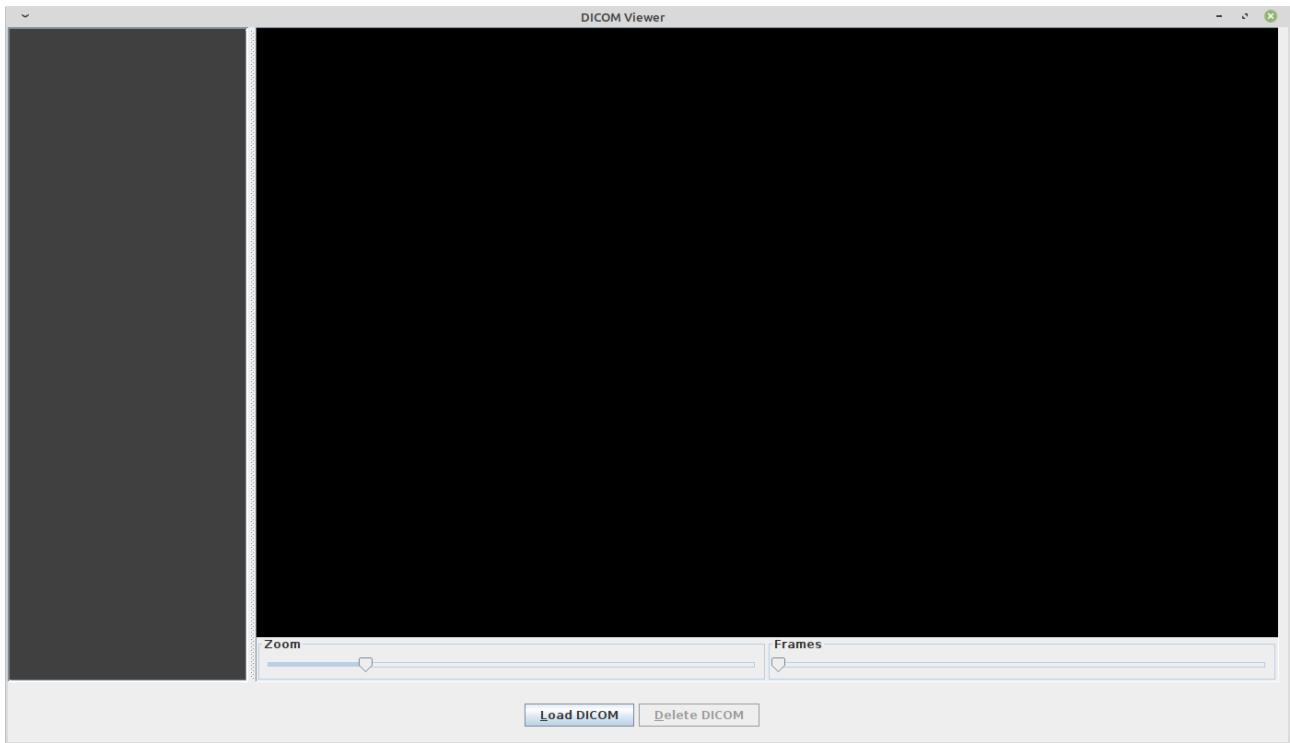


it is possible to double-click an item on any table to automatically restrict the Clinical Sheet report to the selected date ranges and item's category.

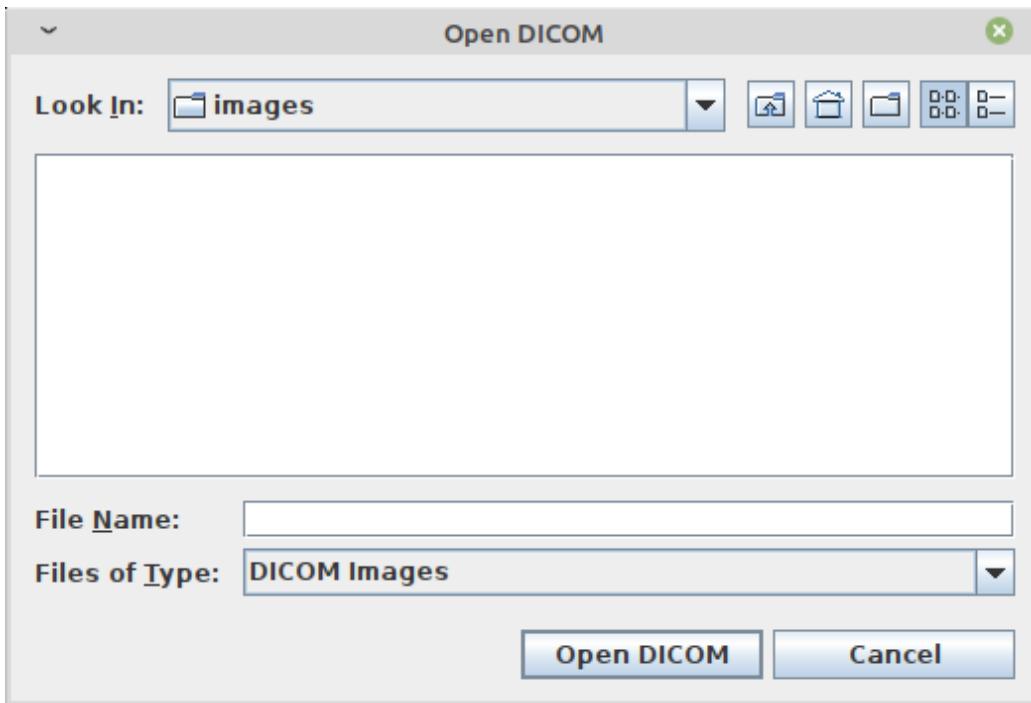
8.9.1 DICOM (**DICOM Viewer**)

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

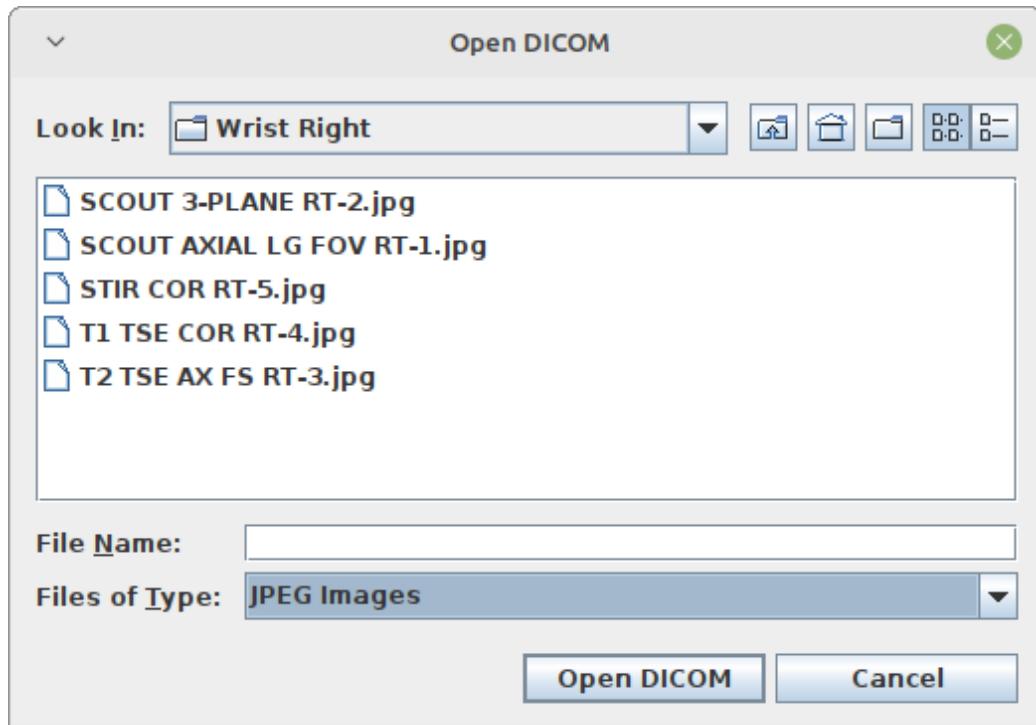
In the **Patient Data** window, click the DICOM button to access the **DICOM Viewer** window as shown below.



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

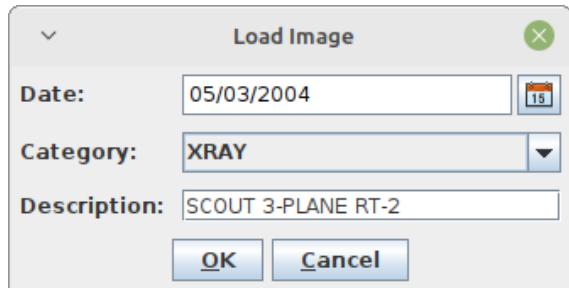


In the case of multi-frame DICOM the whole folder can be selected:



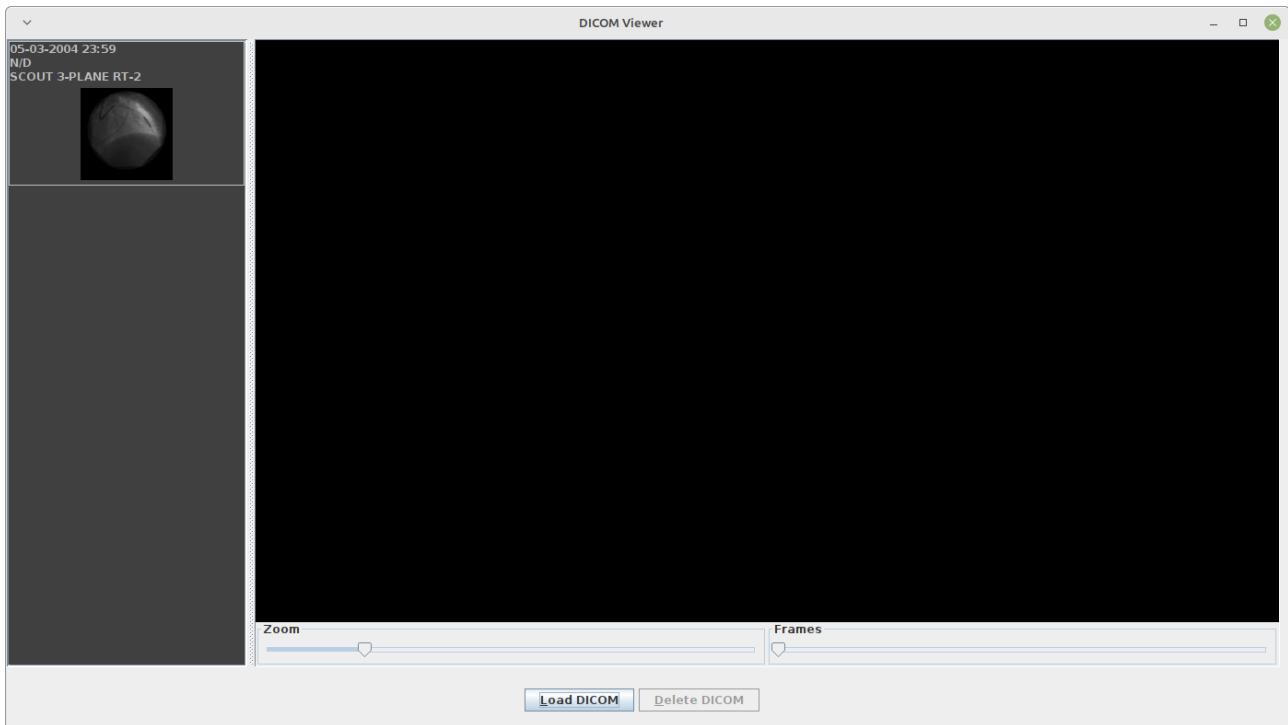
Next, the following data to be used for the DICOM is prompted for (or the multi-frame DICOM series):

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

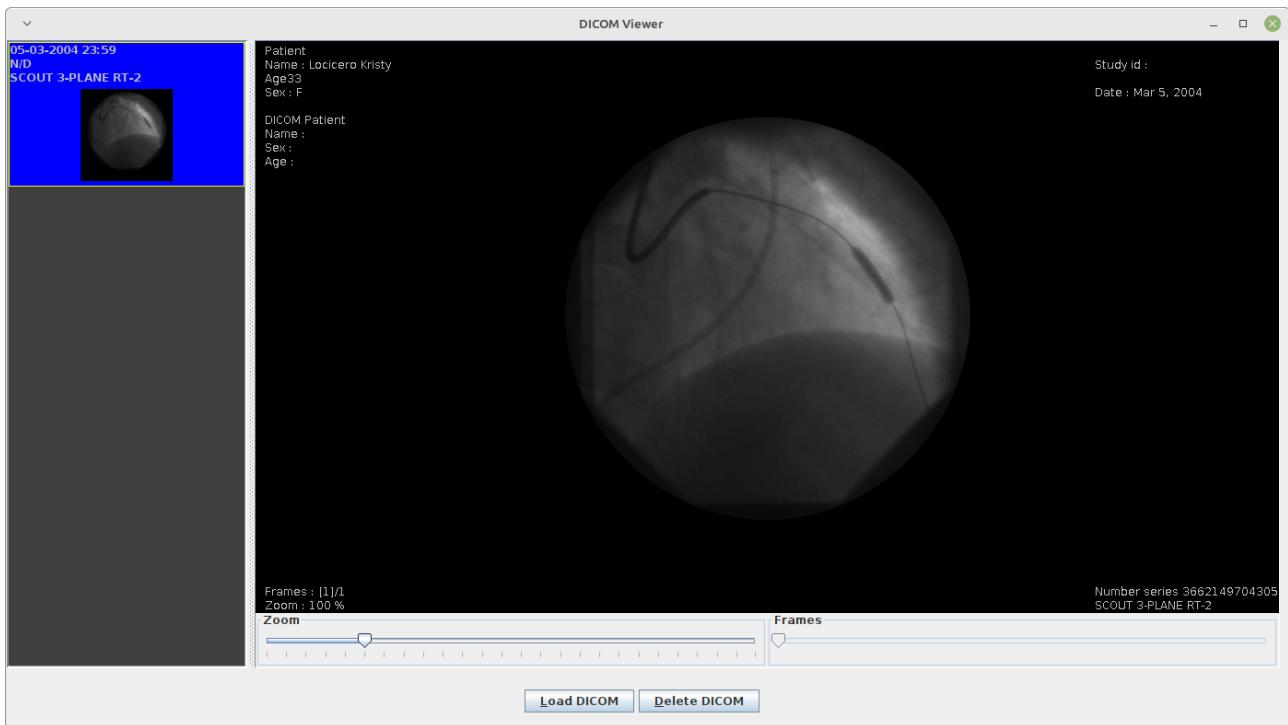


N.B. There is no **Edit DICOM**, so if a mistake is made, delete the DICOM file (**Delete DICOM**) and then reload it (**Load DICOM**) again.

Find the DICOM file and click the **Open DICOM** button to load the file into the **DICOM 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 DICOM file can be loaded into a patient folder. It is possible to delete a DICOM file from the patient's folder. First, select the file in the left view and then click the **Delete DICOM** 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*.

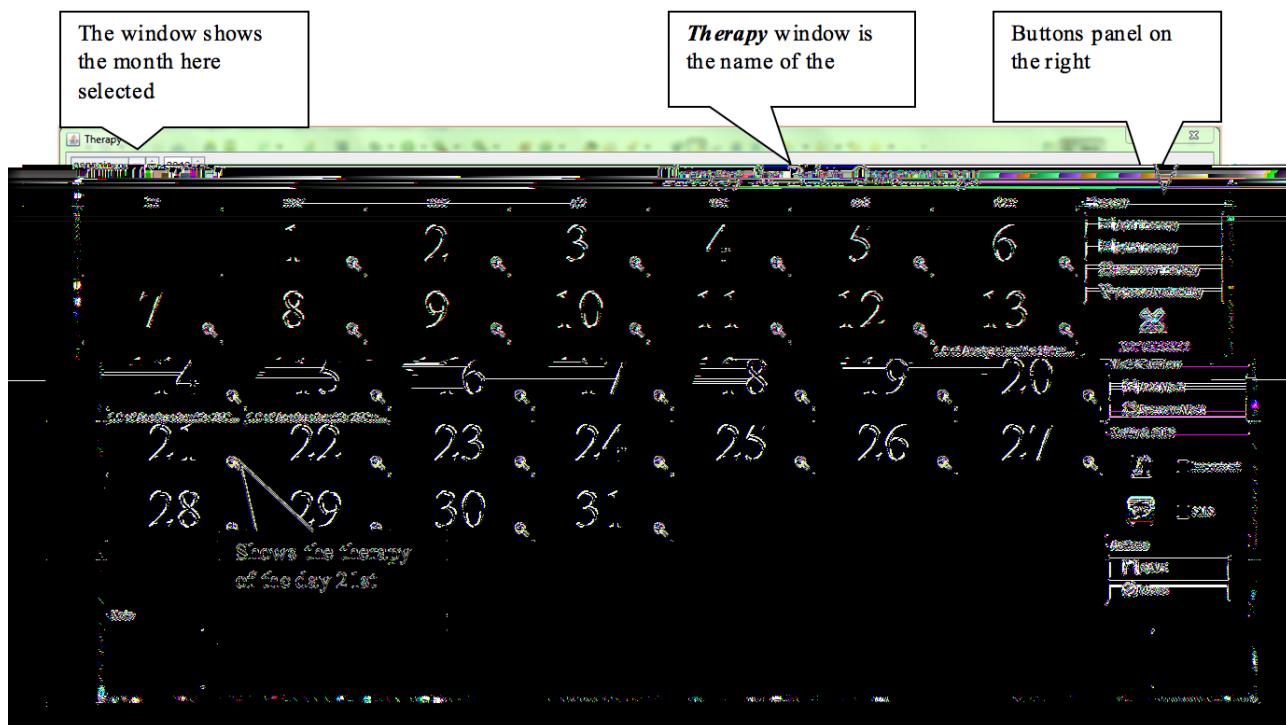
8.10 Therapy Management (Therapy)

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”.



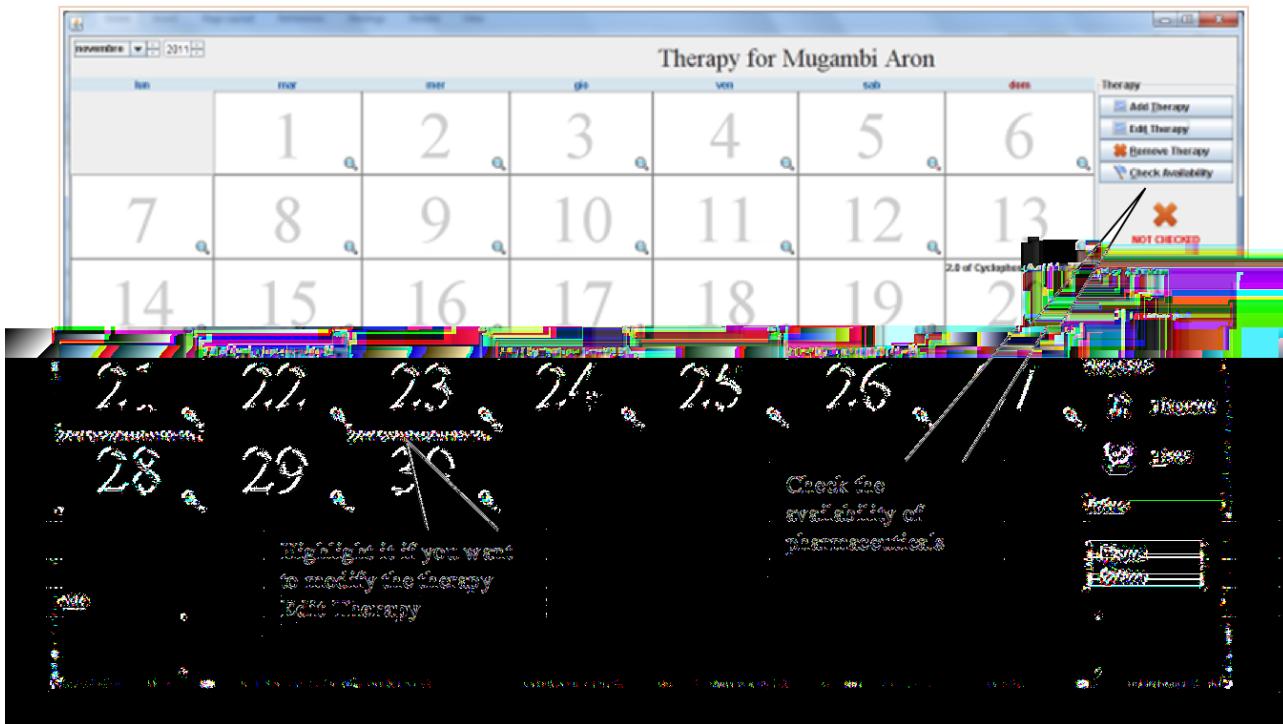
To better explain how the function **Add a therapy** works, the **Therapy** window below shows the results of the therapy defined in the **New Therapy Entry Form** shown above.

To add a therapy the following information is required:

- **Pharmaceutical:** the pharmaceutical of the therapy; in the example above *Cyclophosphamide 500mg* (highlight the desired pharmaceutical)
- **Quantity:** set the quantity; this can be done by clicking on the small up/down arrows (for small quantity) or moving the cursor on the right (for large quantity); 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 every two days (a quantity of 4 *Cyclophosphamide 500mg* every two days has to be given)
- **Period:** set the length of therapy; to do it 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

Once the data is entered 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 **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)

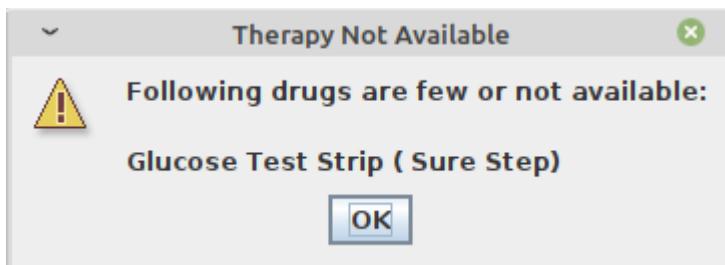
To remove a therapy highlight one occurrence of the therapy (see box above) in the **Therapy** window and then press the **Remove Therapy** button and the therapy is removed from the window and the **Save** button will be enabled (if not already enabled). The removal of a therapy is not effective until 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 green-colored checkmark is shown.



If there are not sufficient quantities 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.

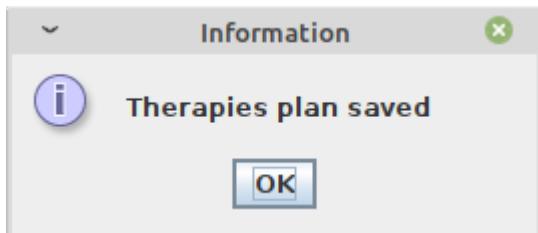


The check can also be done therapy by therapy and not only at the end of the input of all the therapies.

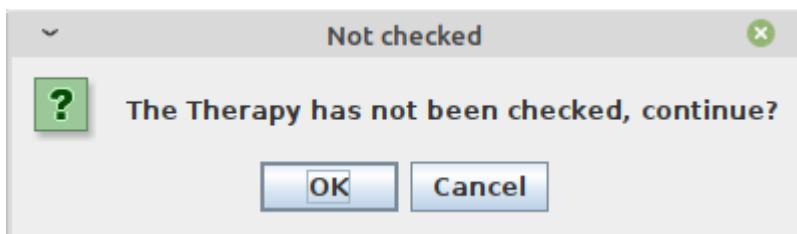
The check function is not mandatory, the therapy plan can be saved without checking the presence of the pharmaceuticals in the hospital (see [Save function](#) below).

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:



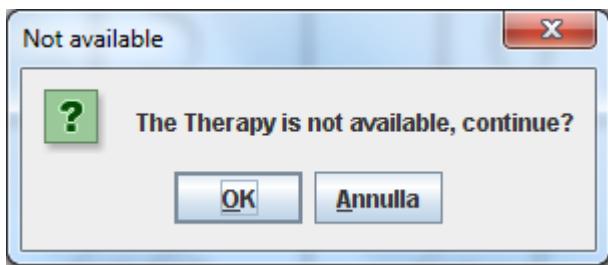
If the availability check has not been executed yet (see [Check availability of the pharmaceuticals](#)) the ***Not checked*** window is shown:



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.

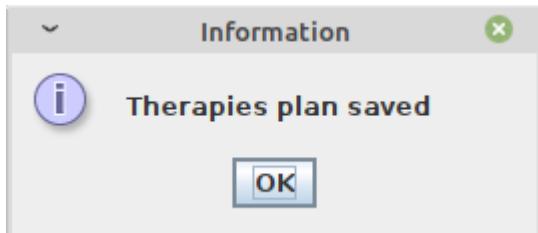
If the availability check is done (see [Check availability of the pharmaceuticals](#)) but the drugs requested by the therapy plan are not available in the hospital, the ***Not Available*** window is shown:



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

- **OK**: confirm the therapy plan; the therapy is saved but there are not the requested pharmaceuticals 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 the availability check that the pharmaceuticals are present in the hospital is done or not, when the application shows the notification window below the therapies plan is saved.

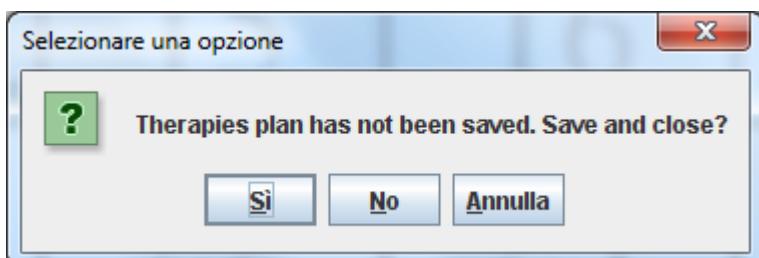


Press **OK** to finish.

8.10.6 Close Function (Close)

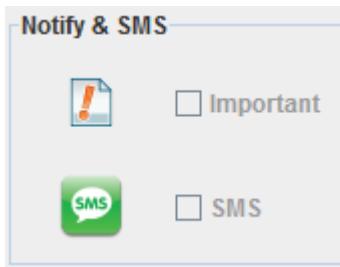
The close function exits from the ***Therapy window***. Press the **Close** button to access the Close function. The ***Select an option*** window is shown:

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 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

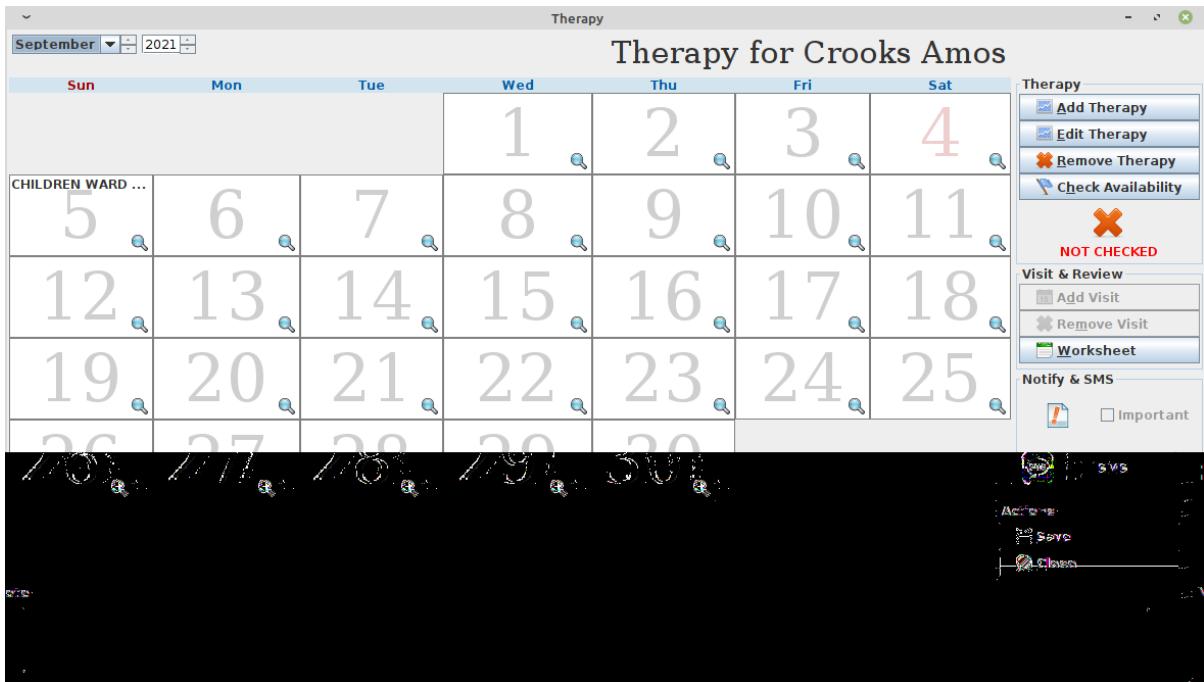
By clicking on the **Add Visit** button, the following window is shown:

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.



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

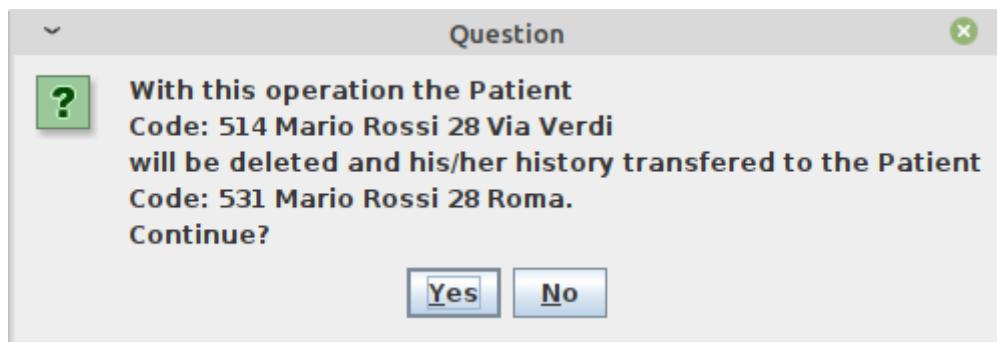
8.11 Merge Function (**Merge**)

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.

To merge data of two patients requires the highlighting of 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 Huckleton	0y 8m 20d	F	Kulele - Long Road 1 - +39	
<input checked="" type="checkbox"/> CHILDREN WARD	528	Kenty Willis	14y 6m 3d	F	Jilkney - 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 Justterin	36y 5m 13d	F	Unibe - Ghoulam Rd 231 - +393452432	
<input checked="" type="checkbox"/> MATERNITY WARD	525	Mary Garrington	0y 7m 0d	F	Kendring - Ganston - +39	
Count: 478	524	Geremia Dickinson	67y 8m 3d	M	Kellog - Springfield - +39	
	523	Quinlan Coors	6y 10m 2d	M	Derbshire - Franklin St 12 - +416824999	
	522	Harry Colterson	62y 6m 21d	M	Ottey - Westeman St. 12 - +912314411	MALE WARD
	521	Betta Jamison	10y 10m 1d	F	Kensington - Kinney Rd. 43 - +39	
	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 - +24341334	
	516	Genna Susterlind	46y 2m 18d	F	Rudkenny - Genve Road 77 - +3813144111	
	515	Alvaro Robertson	12y 1m 13d	M	Guarinton - 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 - +12-4354154	
	509	Ventier Asia	32y 9m 23d	F	Roadinsky - Flamingo 45	
	508	De Koenig 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:



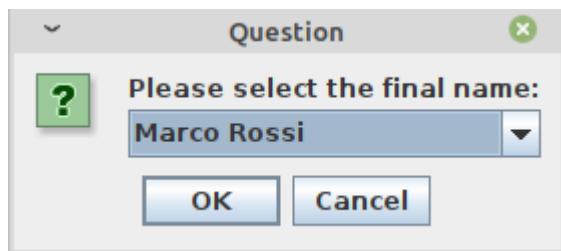
By pressing Yes, the patient with the smaller code is deleted and all their history transferred to the other newer patient record, that is to say:

- 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”.

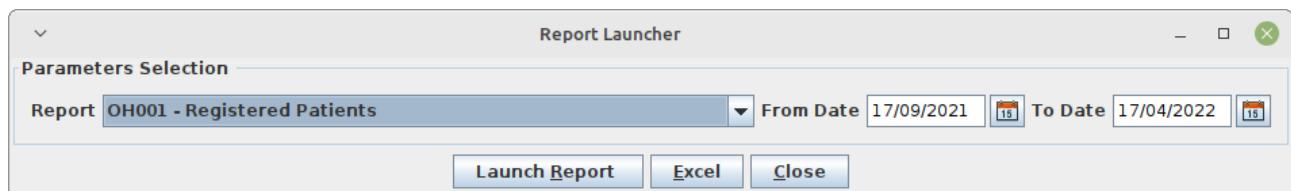
Open Hospital ships with the following set of reports:

- 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:

Registered Patients

St. Luke Catholic Hospital and College of Nursing
P.O. BOX 250 - Wolisso, Southwest Shewa Zone
st.lukehospital@ethionet.et
+251-11 341 0800 / 0714

novembre

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 refer to the *Administrator's Guide*.

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

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*

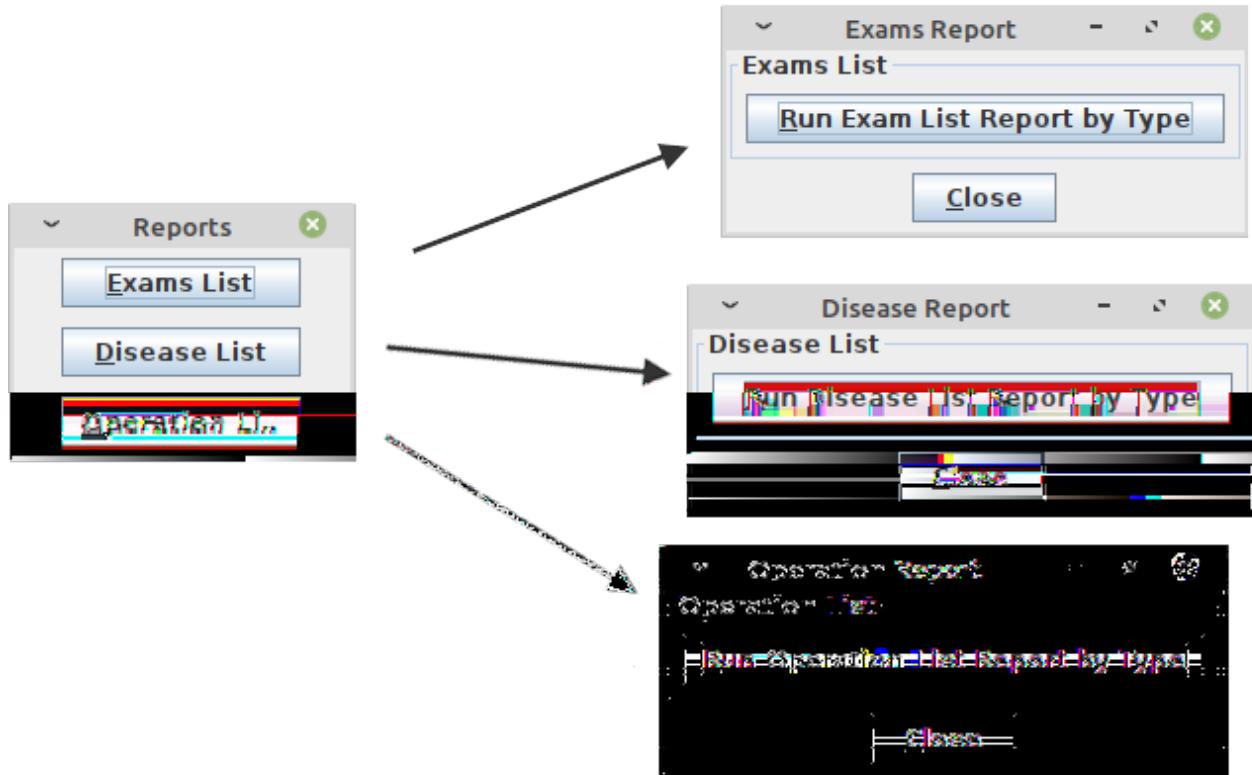


Open Hospital currently only has these three reports:

- 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.*



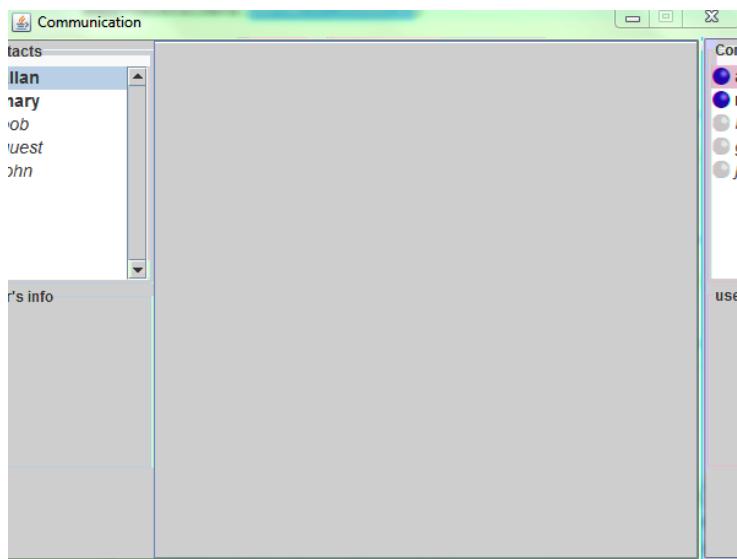
This function is used to chat and share information with other users logged in the system if in turn the application has been set in multi-user mode and an XMPP Server is active and running (Ask the Administrator or refer to the *Administrator's Guide*).

The functionality allows the following tasks:

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

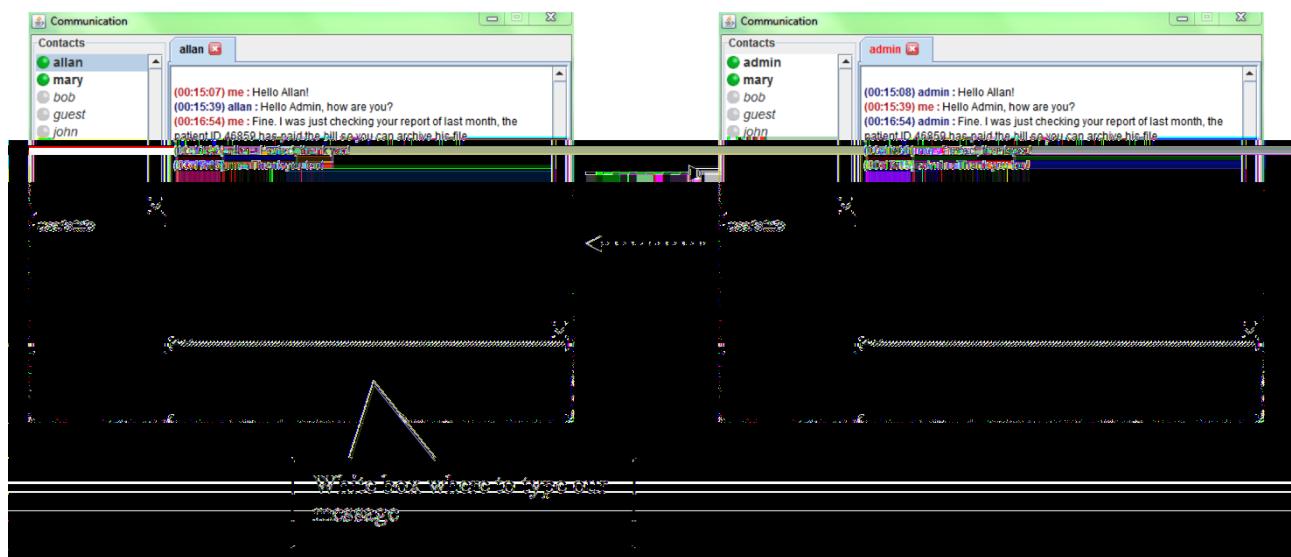
11.2 Chat

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.

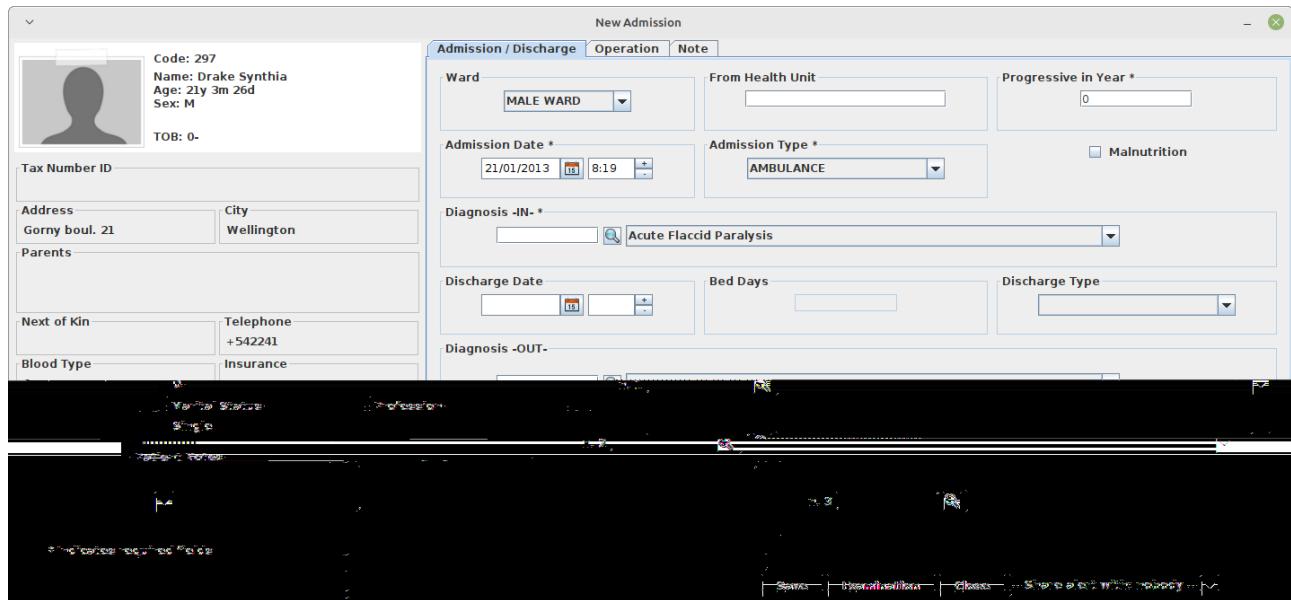
By double-clicking on an active user (i.e. Allan in the figure above) a chat session can be started, as shown in the figures below:



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:



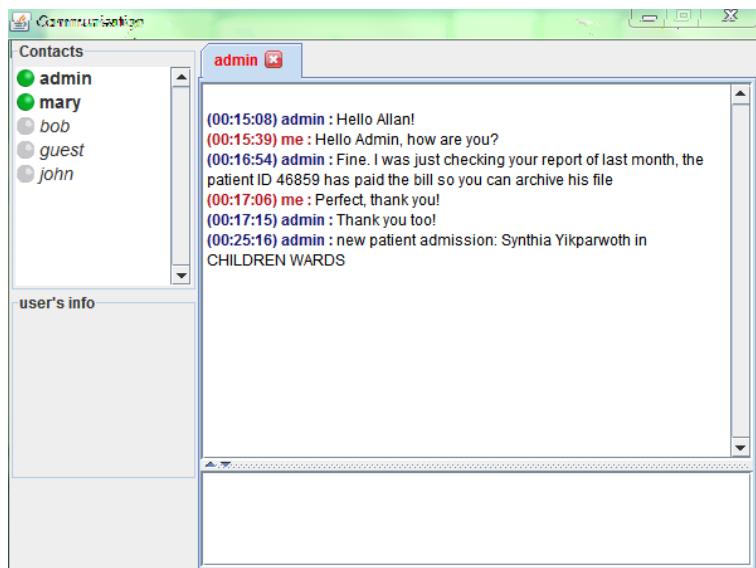
The screenshot shows the 'New Admission' window with various patient details on the left and admission/discharge fields on the right. The 'Buttons panel' at the bottom contains a dropdown menu with several users listed: admin (green circle), mary, bob, guest, and john. There are also buttons for Save, Alert, Close, and Print.

The box lists all users currently logged into the system (those with the green circle near the name) and allows 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:

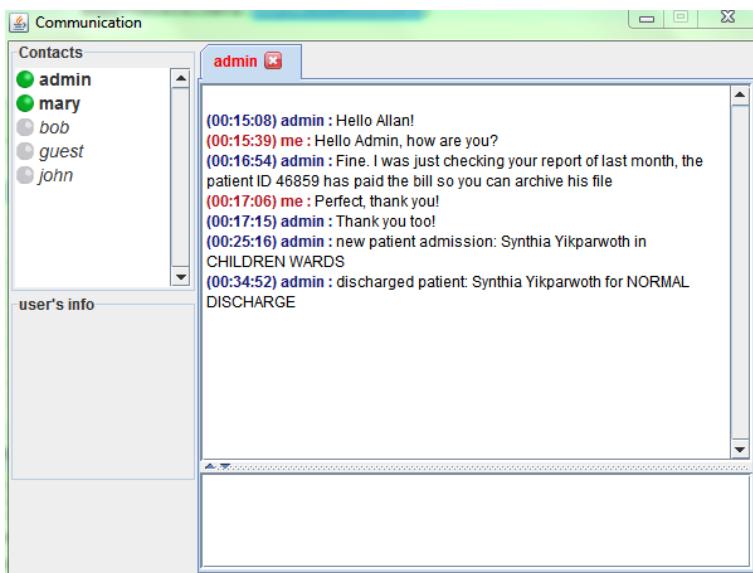


11.3.2 Discharge Notifications

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:

The screenshot shows the Stock Movement window. At the top, there are fields for 'Date' (08/09/2022), 'Discharge Type' (Discharge), 'Destination' (MATERNITY WARD), and 'Reference No.' (empty). Below these is a table with one row:

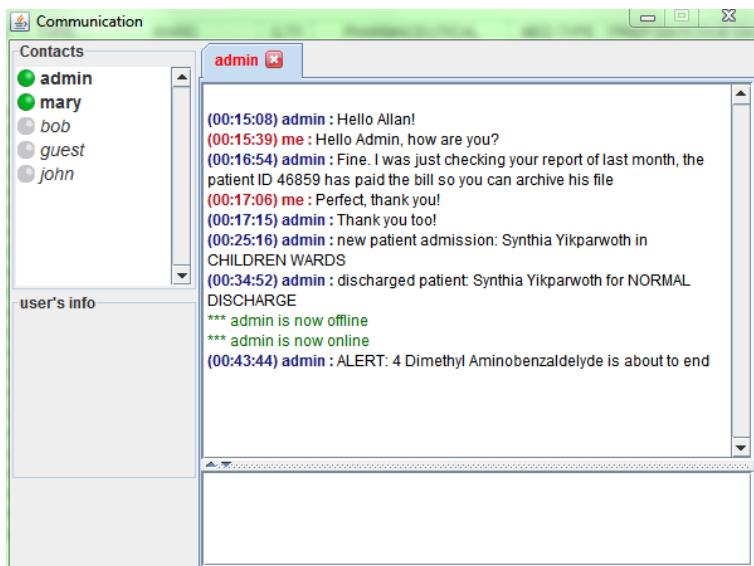
CODE	DESCRIPTION	UNIT/PACK	QTY	UNIT/PACK	TOTAL	LOT NO.	EXPIRING
415	Paracetamol 500 MG	1	69000	Units	69000	-4111916415...	30/03/2025

At the bottom of the window, there is a message box containing the text: "Type a code or a description and press ENTER". Below the table are buttons: Delete, Save, Cancel, and a dropdown menu for sharing alerts. The alert sharing dropdown currently says: "-- Share alert with: Nobody --".

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.

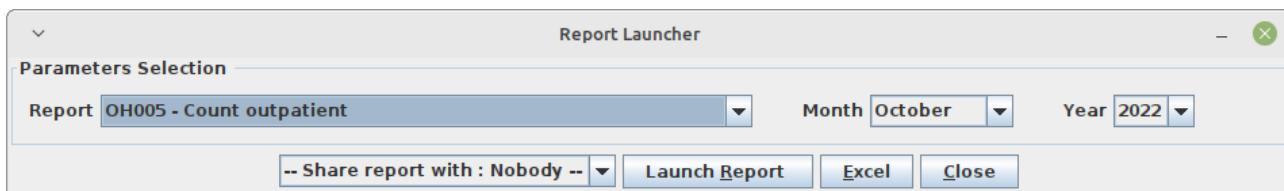
Assuming such a notification about this discharging movement is to be shared with user Allan, when the OK button is pressed, Allan receives in his ***Communication*** window a message like

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



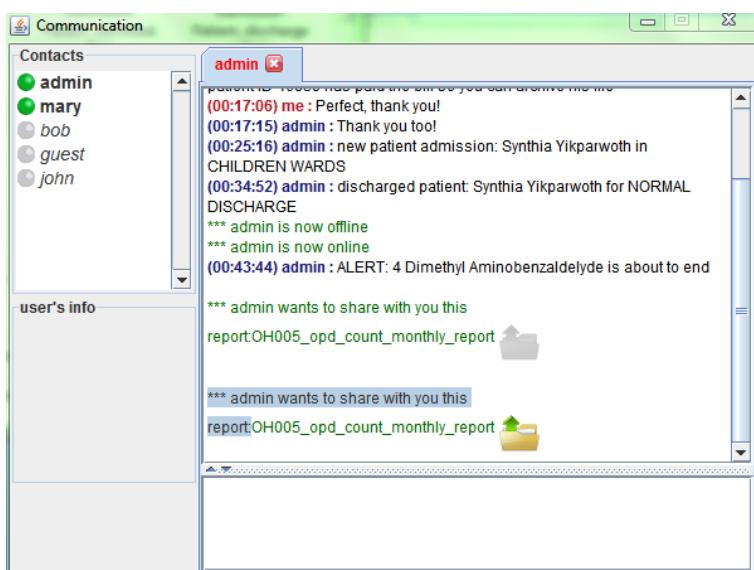
11.5 Report Sharing

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:

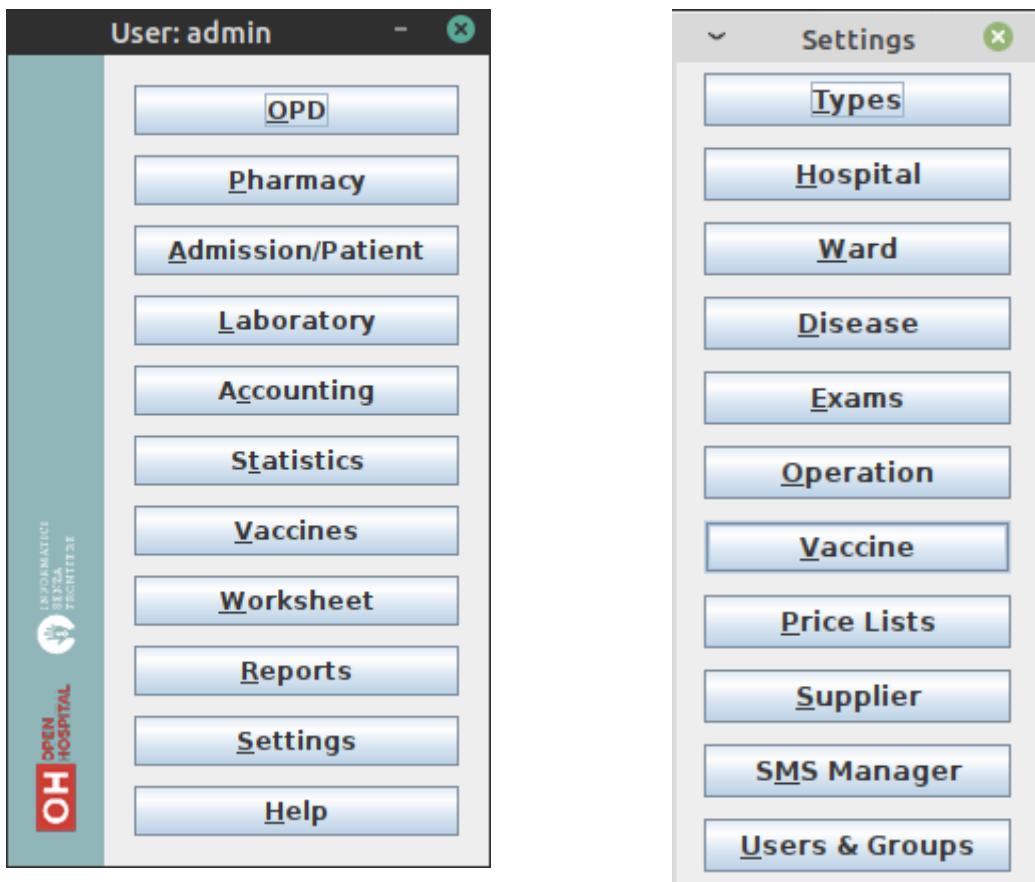


12 Settings (Settings)

12.1 Main Characteristics

Setup and customization of Open Hospital can be performed through the **Settings** functionality. This feature allows the configuration 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:

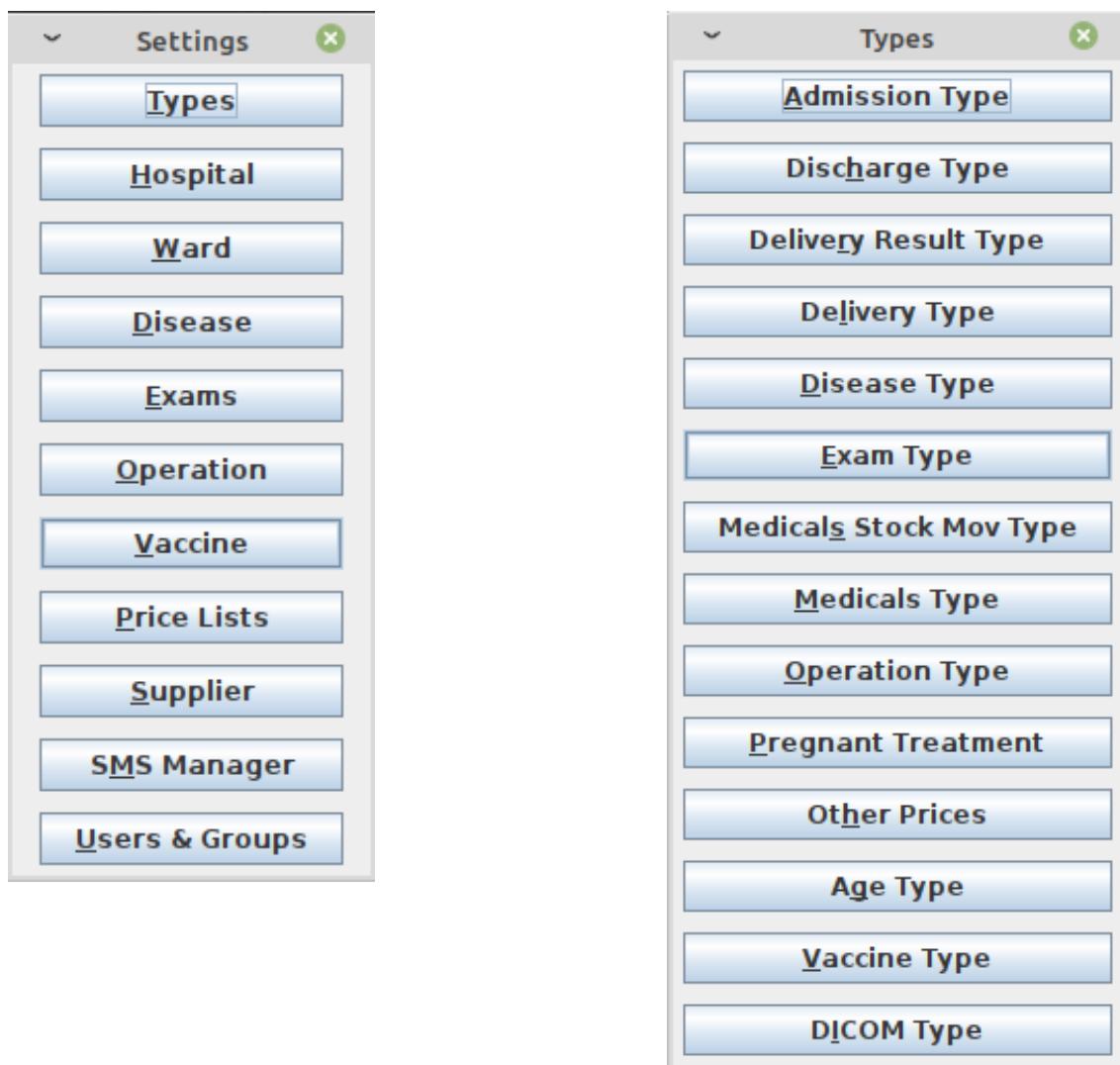
- **Types:** define and manage the various *types* listed in the menu
- **Hospital:** set some Hospital information (name, address, telephone, email, etc.)
- **Ward:** define which departments are in the hospital
- **Disease:** define which diseases are diagnosed in the hospital
- **Exams:** define which 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 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.
- **DICOM Type:** the way similar DICOM 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:

Delivery Type Browser	
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
SP	6. Serology
CH	7. Chemistry
OQ	8.Occult Blood
QI	9.Quality Control
QI	10.Quality Control
SI	11.Serology
ID	12.Identification

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	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.

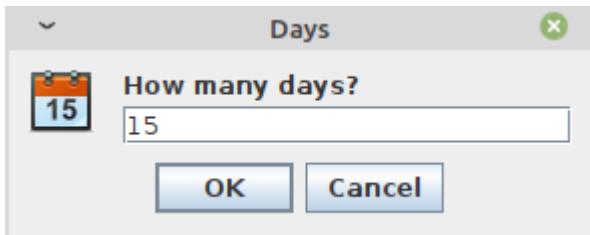
To create a new price, press the **New** button, and the **New Price** window is shown:

New Price

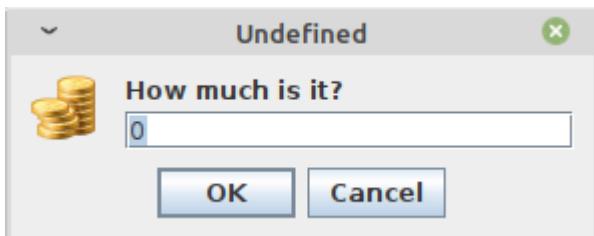
Code:	OTH
Description:	
<input checked="" type="checkbox"/> OPD <input checked="" type="checkbox"/> IPD <input type="checkbox"/> Daily <input type="checkbox"/> Discharge <input type="checkbox"/> Undefined	
OK Cancel	

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 has to be treated as a negative value so it will 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 and every range must be **contiguous** and may not **overlap** any previous or following value.

For example, in the following case, 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](#)

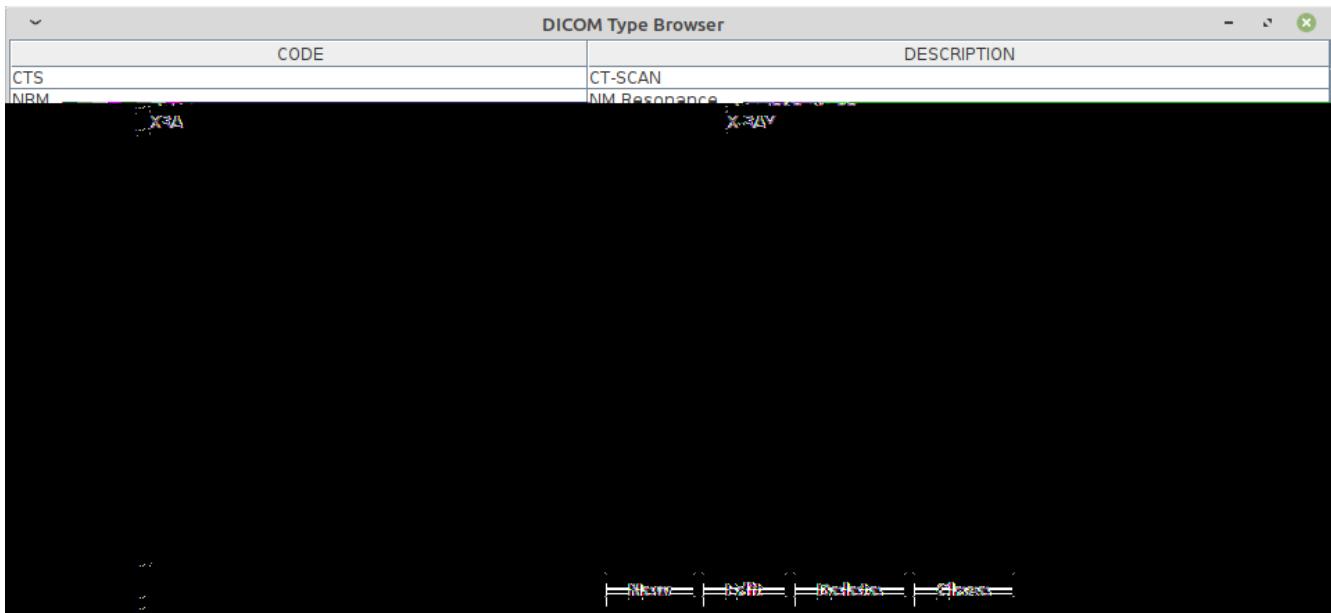
The functions available in this window (similar to other windows in the **Types** menu) are:

- **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 DICOM Types (DICOM Type)

Once the **DICOM Type** button in the **Types** menu is pressed, the **DICOM 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 DICOM Types defined are used in the DICOM Load function (see [DICOM Viewer](#) in this document).

12.3 Hospital (Hospital)

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

A screenshot of a configuration window titled "Hospital Information". It contains a form with the following fields:

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

At the bottom of the window are three buttons: "Edit", "Update", and "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	ANGAL WARD.DU...
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 checked="" 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 checked="" type="checkbox"/>	30
M	MATERNITY WARD	211			67	19	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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

New Edit Delete Close

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:

OH New Ward

Code *	T
Name *	MALE WARD 2
Telephone	233
Fax	
E-mail	
Number of beds *	100
Number of nurses *	5
Number of doctors *	2
Visit duration *	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	Benigne 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	Capsis and other skin cancers
103	4.NON-COMMUNICABLE DISEASES	Cardiac arrest
102	4.NON-COMMUNICABLE DISEASES	Cerebro-vascular event
28	3.NON-COMMUNICABLE DISEASES	Childhood and juvenile diabetes
2	1.NOTIFIABLE DISEASES	Cholera
32	4.NON-COMMUNICABLE DISEASES	Complications and surgical scars
91	1.NOTIFIABLE DISEASES	Congenital malformations and chromosome abnormal...
124	1.NOTIFIABLE DISEASES	Convalescence
100	4.NON-COMMUNICABLE DISEASES	Cystic fibrosis
92	2.OTHER INFECTIOUS/COMMUNICABLE DISEASES	Death in IPP
10	4.NON-COMMUNICABLE DISEASES	Delayed child and comorbidity

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:

Edit Disease	
Type	1.NOTIFIABLE DISEASES
Code	95
Description	Cancer of the prostate
<input type="checkbox"/> OPD <input checked="" type="checkbox"/> IPD -IN- <input checked="" type="checkbox"/> IPD -OUT-	
OK Cancel	

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.

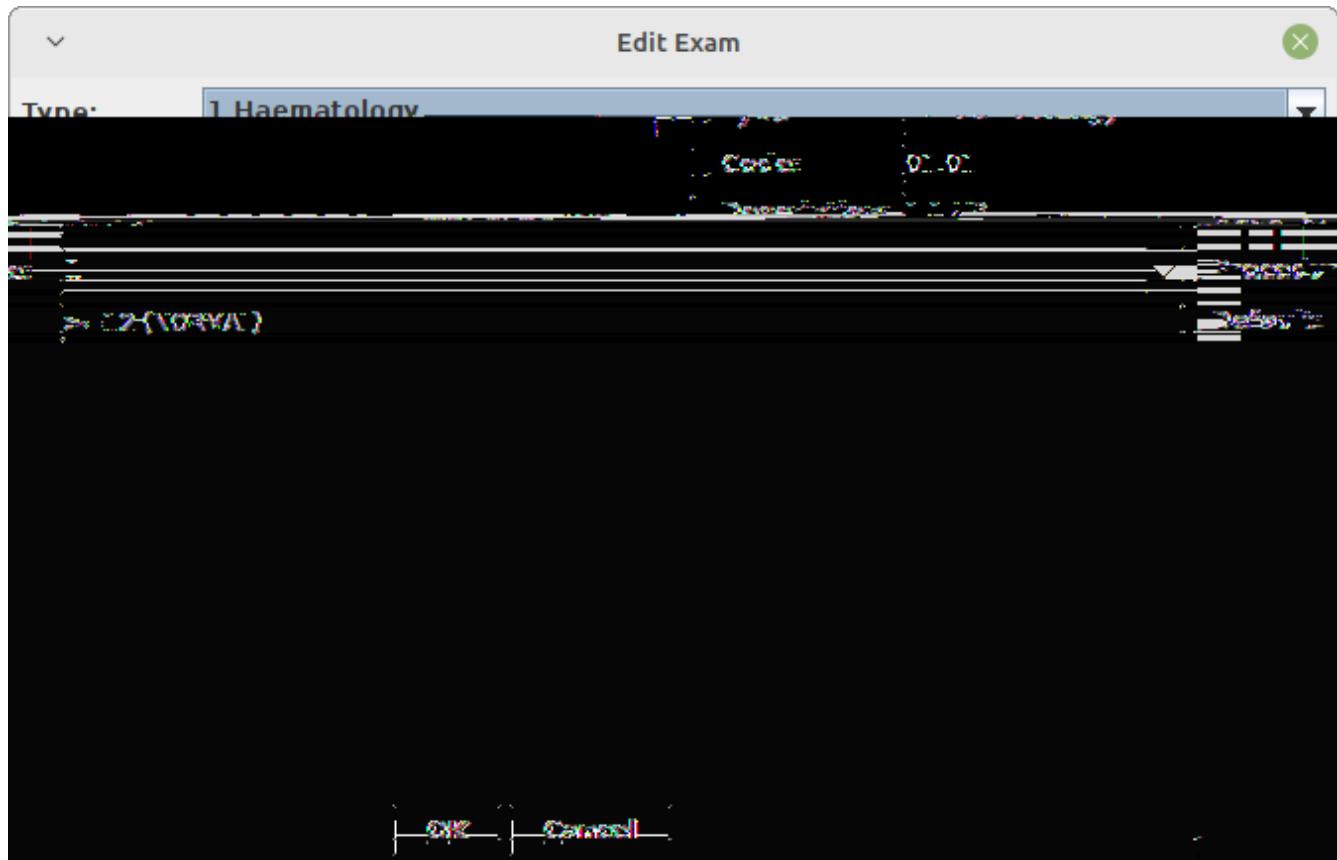
The diseases defined are reflected throughout the entire application, like in the Admission module

and the OPD module (see [Admission/Patient](#) and [Outpatient Department Management](#) in this document).

12.6 Exam ([Exams](#))

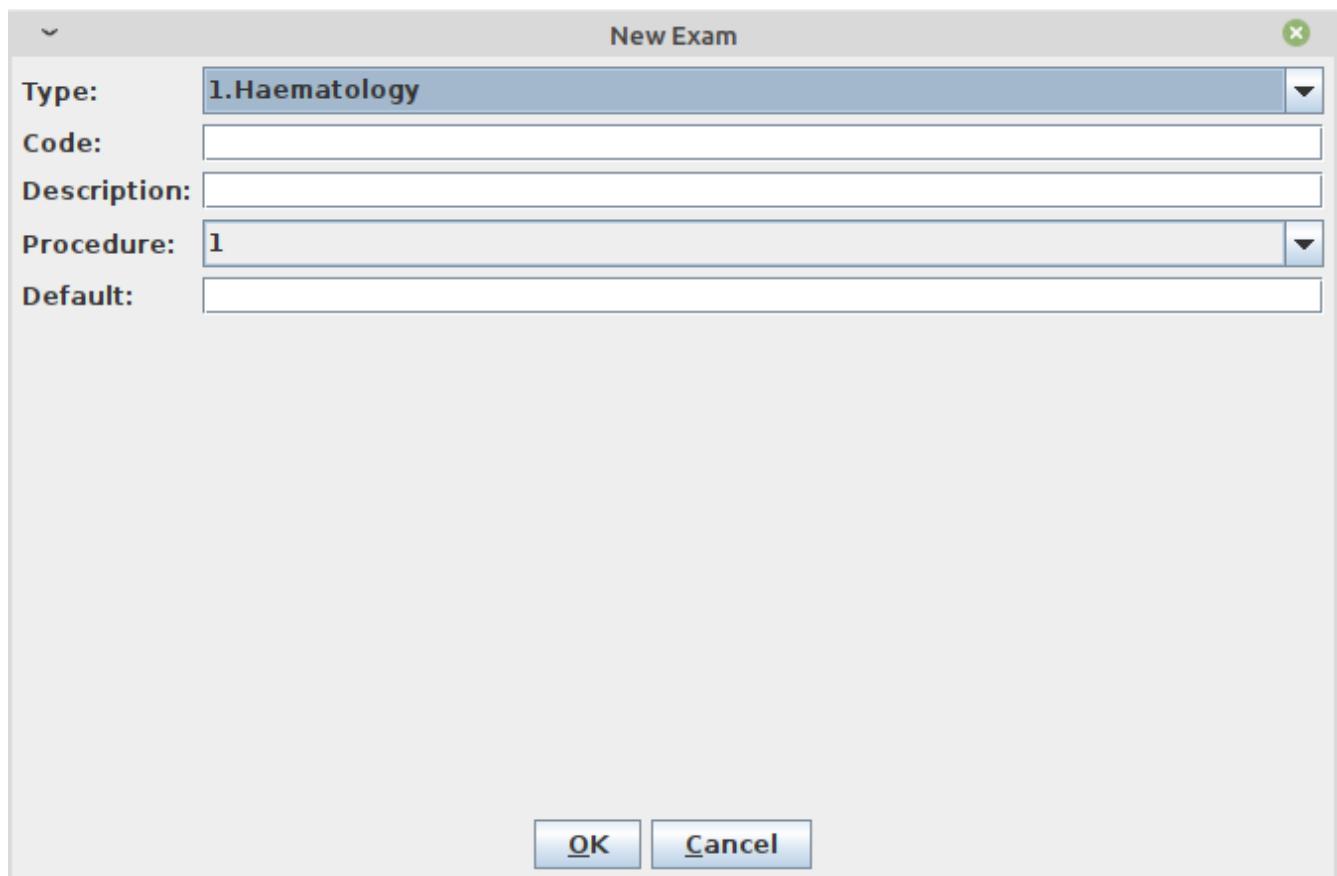
Once the **Exams** button in the **Settings** menu is pressed, the **Exam Browser** window is shown:

Exam Browser				
Search <input type="text"/>				
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
		3.5 CEREBROSPINAL FLUID	1	NEGATIVE
		3.6 SPUTUM	1	NEGATIVE
		3.7 MONITORING	1	NEGATIVE
		3.8 OTHERS	1	NEGATIVE
		3.9 MONITORING	1	NEGATIVE
		3.10 MONITORING	1	NEGATIVE
		3.11 MONITORING	1	NEGATIVE
		3.12 MONITORING	1	NEGATIVE
		3.13 MONITORING	1	NEGATIVE
		3.14 MONITORING	1	NEGATIVE
		3.15 MONITORING	1	NEGATIVE
		3.16 MONITORING	1	NEGATIVE
		3.17 MONITORING	1	NEGATIVE
		3.18 MONITORING	1	NEGATIVE
		3.19 MONITORING	1	NEGATIVE
		3.20 MONITORING	1	NEGATIVE
		3.21 MONITORING	1	NEGATIVE
		3.22 MONITORING	1	NEGATIVE
		3.23 MONITORING	1	NEGATIVE
		3.24 MONITORING	1	NEGATIVE
		3.25 MONITORING	1	NEGATIVE
		3.26 MONITORING	1	NEGATIVE
		3.27 MONITORING	1	NEGATIVE
		3.28 MONITORING	1	NEGATIVE
		3.29 MONITORING	1	NEGATIVE
		3.30 MONITORING	1	NEGATIVE
		3.31 MONITORING	1	NEGATIVE
		3.32 MONITORING	1	NEGATIVE
		3.33 MONITORING	1	NEGATIVE
		3.34 MONITORING	1	NEGATIVE
		3.35 MONITORING	1	NEGATIVE
		3.36 MONITORING	1	NEGATIVE
		3.37 MONITORING	1	NEGATIVE
		3.38 MONITORING	1	NEGATIVE
		3.39 MONITORING	1	NEGATIVE
		3.40 MONITORING	1	NEGATIVE
		3.41 MONITORING	1	NEGATIVE
		3.42 MONITORING	1	NEGATIVE
		3.43 MONITORING	1	NEGATIVE
		3.44 MONITORING	1	NEGATIVE
		3.45 MONITORING	1	NEGATIVE
		3.46 MONITORING	1	NEGATIVE
		3.47 MONITORING	1	NEGATIVE
		3.48 MONITORING	1	NEGATIVE
		3.49 MONITORING	1	NEGATIVE
		3.50 MONITORING	1	NEGATIVE
		3.51 MONITORING	1	NEGATIVE
		3.52 MONITORING	1	NEGATIVE
		3.53 MONITORING	1	NEGATIVE
		3.54 MONITORING	1	NEGATIVE
		3.55 MONITORING	1	NEGATIVE
		3.56 MONITORING	1	NEGATIVE
		3.57 MONITORING	1	NEGATIVE
		3.58 MONITORING	1	NEGATIVE
		3.59 MONITORING	1	NEGATIVE
		3.60 MONITORING	1	NEGATIVE
		3.61 MONITORING	1	NEGATIVE
		3.62 MONITORING	1	NEGATIVE
		3.63 MONITORING	1	NEGATIVE
		3.64 MONITORING	1	NEGATIVE
		3.65 MONITORING	1	NEGATIVE
		3.66 MONITORING	1	NEGATIVE
		3.67 MONITORING	1	NEGATIVE
		3.68 MONITORING	1	NEGATIVE
		3.69 MONITORING	1	NEGATIVE
		3.70 MONITORING	1	NEGATIVE
		3.71 MONITORING	1	NEGATIVE
		3.72 MONITORING	1	NEGATIVE
		3.73 MONITORING	1	NEGATIVE
		3.74 MONITORING	1	NEGATIVE
		3.75 MONITORING	1	NEGATIVE
		3.76 MONITORING	1	NEGATIVE
		3.77 MONITORING	1	NEGATIVE
		3.78 MONITORING	1	NEGATIVE
		3.79 MONITORING	1	NEGATIVE
		3.80 MONITORING	1	NEGATIVE
		3.81 MONITORING	1	NEGATIVE
		3.82 MONITORING	1	NEGATIVE
		3.83 MONITORING	1	NEGATIVE
		3.84 MONITORING	1	NEGATIVE
		3.85 MONITORING	1	NEGATIVE
		3.86 MONITORING	1	NEGATIVE
		3.87 MONITORING	1	NEGATIVE
		3.88 MONITORING	1	NEGATIVE
		3.89 MONITORING	1	NEGATIVE
		3.90 MONITORING	1	NEGATIVE
		3.91 MONITORING	1	NEGATIVE
		3.92 MONITORING	1	NEGATIVE
		3.93 MONITORING	1	NEGATIVE
		3.94 MONITORING	1	NEGATIVE
		3.95 MONITORING	1	NEGATIVE
		3.96 MONITORING	1	NEGATIVE
		3.97 MONITORING	1	NEGATIVE
		3.98 MONITORING	1	NEGATIVE
		3.99 MONITORING	1	NEGATIVE
		3.100 MONITORING	1	NEGATIVE
		3.101 MONITORING	1	NEGATIVE
		3.102 MONITORING	1	NEGATIVE
		3.103 MONITORING	1	NEGATIVE
		3.104 MONITORING	1	NEGATIVE
		3.105 MONITORING	1	NEGATIVE
		3.106 MONITORING	1	NEGATIVE
		3.107 MONITORING	1	NEGATIVE
		3.108 MONITORING	1	NEGATIVE
		3.109 MONITORING	1	NEGATIVE
		3.110 MONITORING	1	NEGATIVE
		3.111 MONITORING	1	NEGATIVE
		3.112 MONITORING	1	NEGATIVE
		3.113 MONITORING	1	NEGATIVE
		3.114 MONITORING	1	NEGATIVE
		3.115 MONITORING	1	NEGATIVE
		3.116 MONITORING	1	NEGATIVE
		3.117 MONITORING	1	NEGATIVE
		3.118 MONITORING	1	NEGATIVE
		3.119 MONITORING	1	NEGATIVE
		3.120 MONITORING	1	NEGATIVE
		3.121 MONITORING	1	NEGATIVE
		3.122 MONITORING	1	NEGATIVE
		3.123 MONITORING	1	NEGATIVE
		3.124 MONITORING	1	NEGATIVE
		3.125 MONITORING	1	NEGATIVE
		3.126 MONITORING	1	NEGATIVE
		3.127 MONITORING	1	NEGATIVE
		3.128 MONITORING	1	NEGATIVE
		3.129 MONITORING	1	NEGATIVE
		3.130 MONITORING	1	NEGATIVE
		3.131 MONITORING	1	NEGATIVE
		3.132 MONITORING	1	NEGATIVE
		3.133 MONITORING	1	NEGATIVE
		3.134 MONITORING	1	NEGATIVE
		3.135 MONITORING	1	NEGATIVE
		3.136 MONITORING	1	NEGATIVE
		3.137 MONITORING	1	NEGATIVE
		3.138 MONITORING	1	NEGATIVE
		3.139 MONITORING	1	NEGATIVE
		3.140 MONITORING	1	NEGATIVE
		3.141 MONITORING	1	NEGATIVE
		3.142 MONITORING	1	NEGATIVE
		3.143 MONITORING	1	NEGATIVE
		3.144 MONITORING	1	NEGATIVE
		3.145 MONITORING	1	NEGATIVE
		3.146 MONITORING	1	NEGATIVE
		3.147 MONITORING	1	NEGATIVE
		3.148 MONITORING	1	NEGATIVE
		3.149 MONITORING	1	NEGATIVE
		3.150 MONITORING	1	NEGATIVE
		3.151 MONITORING	1	NEGATIVE
		3.152 MONITORING	1	NEGATIVE
		3.153 MONITORING	1	NEGATIVE
		3.154 MONITORING	1	NEGATIVE
		3.155 MONITORING	1	NEGATIVE
		3.156 MONITORING	1	NEGATIVE
		3.157 MONITORING	1	NEGATIVE
		3.158 MONITORING	1	NEGATIVE
		3.159 MONITORING	1	NEGATIVE
		3.160 MONITORING	1	NEGATIVE
		3.161 MONITORING	1	NEGATIVE
		3.162 MONITORING	1	NEGATIVE
		3.163 MONITORING	1	NEGATIVE
		3.164 MONITORING	1	NEGATIVE
		3.165 MONITORING	1	NEGATIVE
		3.166 MONITORING	1	NEGATIVE
		3.167 MONITORING	1	NEGATIVE
		3.168 MONITORING	1	NEGATIVE
		3.169 MONITORING	1	NEGATIVE
		3.170 MONITORING	1	NEGATIVE
		3.171 MONITORING	1	NEGATIVE
		3.172 MONITORING	1	NEGATIVE
		3.173 MONITORING	1	NEGATIVE
		3.174 MONITORING	1	NEGATIVE
		3.175 MONITORING	1	NEGATIVE
		3.176 MONITORING	1	NEGATIVE
		3.177 MONITORING	1	NEGATIVE
		3.178 MONITORING	1	NEGATIVE
		3.179 MONITORING	1	NEGATIVE
		3.180 MONITORING	1	NEGATIVE
		3.181 MONITORING	1	NEGATIVE
		3.182 MONITORING	1	NEGATIVE
		3.183 MONITORING	1	NEGATIVE
		3.184 MONITORING	1	NEGATIVE
		3.185 MONITORING	1	NEGATIVE
		3.186 MONITORING	1	NEGATIVE
		3.187 MONITORING	1	NEGATIVE
		3.188 MONITORING	1	NEGATIVE
		3.189 MONITORING	1	NEGATIVE
		3.190 MONITORING	1	NEGATIVE
		3.191 MONITORING	1	NEGATIVE
		3.192 MONITORING	1	NEGATIVE
		3.193 MONITORING	1	NEGATIVE
		3.194 MONITORING	1	NEGATIVE
		3.195 MONITORING	1	NEGATIVE
		3.196 MONITORING	1	NEGATIVE
		3.197 MONITORING	1	NEGATIVE
		3.198 MONITORING	1	NEGATIVE
		3.199 MONITORING	1	NEGATIVE
		3.200 MONITORING	1	NEGATIVE
		3.201 MONITORING	1	NEGATIVE
		3.202 MONITORING	1	NEGATIVE
		3.203 MONITORING	1	NEGATIVE
		3.204 MONITORING	1	NEGATIVE
		3.205 MONITORING	1	NEGATIVE
		3.206 MONITORING	1	NEGATIVE
		3.207 MONITORING	1	NEGATIVE
		3.208 MONITORING	1	NEGATIVE
		3.209 MONITORING	1	NEGATIVE
		3.210 MONITORING	1	NEGATIVE
		3.211 MONITORING	1	NEGATIVE
		3.212 MONITORING	1	NEGATIVE
		3.213 MONITORING	1	NEGATIVE
		3.214 MONITORING	1	NEGATIVE
		3.215 MONITORING	1	NEGATIVE
		3.216 MONITORING	1	NEGATIVE
		3.217 MONITORING	1	NEGATIVE
		3.218 MONITORING	1	NEGATIVE
		3.219 MONITORING	1	NEGATIVE
		3.220 MONITORING	1	NEGATIVE
		3.221 MONITORING	1	NEGATIVE
		3.222 MONITORING	1	NEGATIVE
		3.223 MONITORING	1	NEGATIVE
		3.224 MONITORING	1	NEGATIVE
		3.225 MONITORING	1	NEGATIVE
		3.226 MONITORING	1	NEGATIVE
		3.227 MONITORING	1	NEGATIVE
		3.228 MONITORING	1	NEGATIVE
		3.229 MONITORING	1	NEGATIVE
		3.230 MONITORING	1	NEGATIVE
		3.231 MONITORING	1	NEGATIVE
		3.232 MONITORING	1	NEGATIVE
		3.233 MONITORING	1	NEGATIVE
		3.234 MONITORING	1	NEGATIVE
		3.235 MONITORING	1	NEGATIVE
		3.236 MONITORING	1	NEGATIVE
		3.237 MONITORING	1	NEGATIVE
		3.238 MONITORING	1	NEGATIVE
		3.239 MONITORING	1	NEGATIVE
		3.240 MONITORING	1	NEGATIVE
		3.241 MONITORING	1	NEGATIVE
		3.242 MONITORING	1	NEGATIVE
		3.243 MONITORING	1	NEGATIVE
		3.244 MONITORING	1	NEGATIVE
		3.245 MONITORING	1	NEGATIVE
		3.246 MONITORING	1	NEGATIVE
		3.247 MONITORING	1	NEGATIVE
		3.248 MONITORING	1	NEGATIVE
		3.249 MONITORING	1	NEGATIVE
		3.250 MONITORING	1	NEGATIVE
		3.251 MONITORING	1	NEGATIVE
		3.252 MONITORING	1	NEGATIVE
		3.253 MONITORING	1	NEGATIVE
		3.254 MONITORING	1	NEGATIVE
		3.255 MONITORING	1	NEGATIVE
		3.256 MONITORING	1	NEGATIVE
		3.257 MONITORING	1	NEGATIVE
		3.258 MONITORING	1	NEGATIVE
		3.259 MONITORING	1	NEGATIVE
		3.260 MONITORING	1	NEGATIVE
		3.261 MONITORING	1	NEGATIVE
		3.262 MONITORING	1	NEGATIVE
		3.263 MONITORING	1	NEGATIVE
		3.264 MONITORING	1	



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:



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](#))

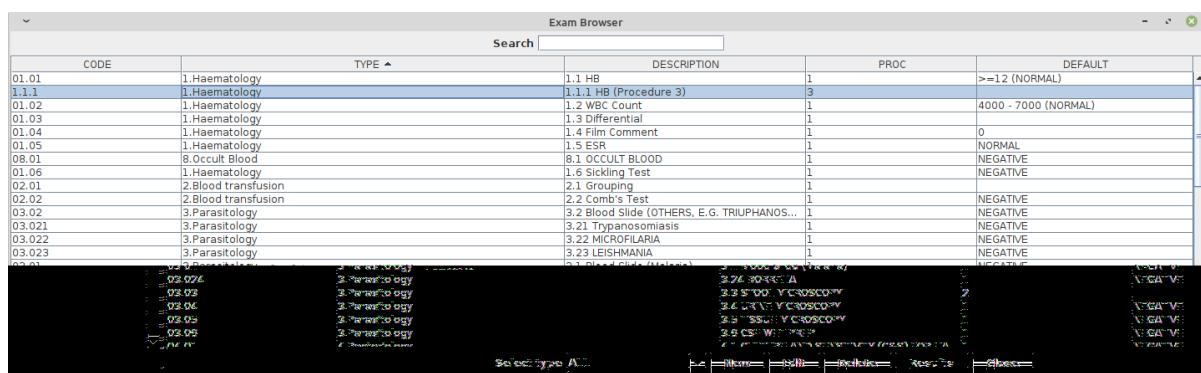
Once an exam is defined, the next step is the definition of the set of results the exam can have. First, select the exam in the **Exam Browser** window and then press the **Results** button.

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:



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

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

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
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

In editing mode, the code cannot be changed but only modification of the Type, the Description and whether the operation concerns Major or Minor surgery for statistical purposes (not yet implemented) are allowed.

You can also change the operation's context: *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:

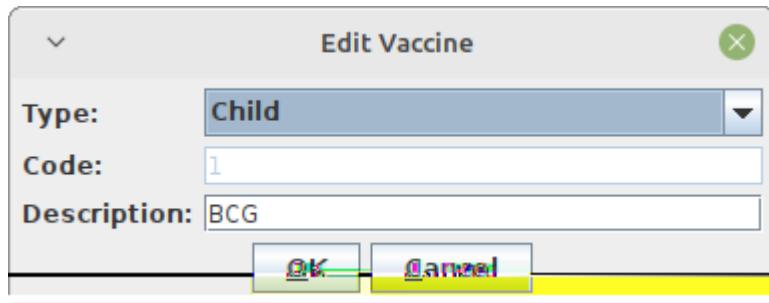
Vaccine Browser		
CODE	TYPE	DESCRIPTION
1	Child	BCG
6	Child	DPT 1 - HepB + Hib 1
7	Child	DPT 2 - HepB + Hib 1
8	Child	DPT 3 - HepB + Hib 1
9	Child	MEASLES
2	Child	POLIO 0 C
3	Child	POLIO 1 C
4	Child	POLIO 2 C
5	Child	POLIO 3 C
10	Pregnant	TT VACCINE DOSE 1
15	No pregnant	TT VACCINE DOSE 2
11	Pregnant	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	Pregnant	TT VACCINE DOSE 5

Select type

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:



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:

		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 MICROFILARIA	12
		3.23 LEISHMANIA	12
		3.24 BORRELLIA	12
		3.3 STOOL MICROSCOPY	16
		3.4 URINE MICROSCOPY	16
		3.5 TISSUE MICROSCOPY	16

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:

List Browser			
ID	NAME	DESCRIPTION	CURRENCY
LIST001	Basic	Basic price list	FCFA
New	Copy	Edit	Delete

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.

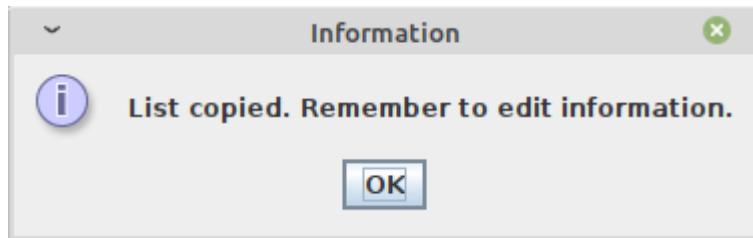
- **Delete:** delete an existing price list.

- **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"

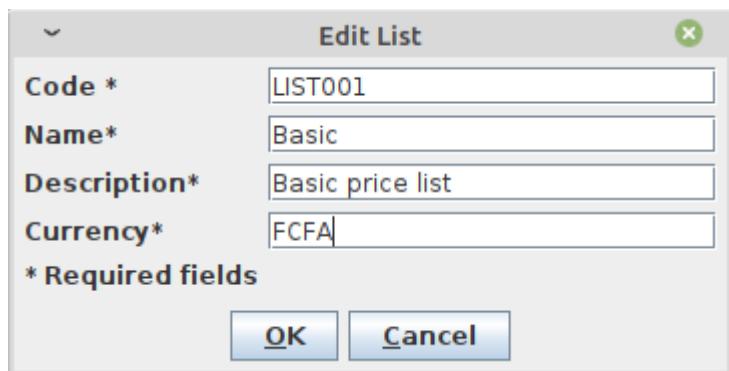
NAME: the same name provided in the step by step copying procedure

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:

ID	NAME	ADDRESS	TAX NUMBER ID	TELEPHONE	FAX	E-MAIL	NOTE	DELETED
1	JMS	Sesame Street - 73149 New ...		+22.243454252	+22.243454252	info@enterprise.com		
2	Enterprise Limited							

[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:

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...	

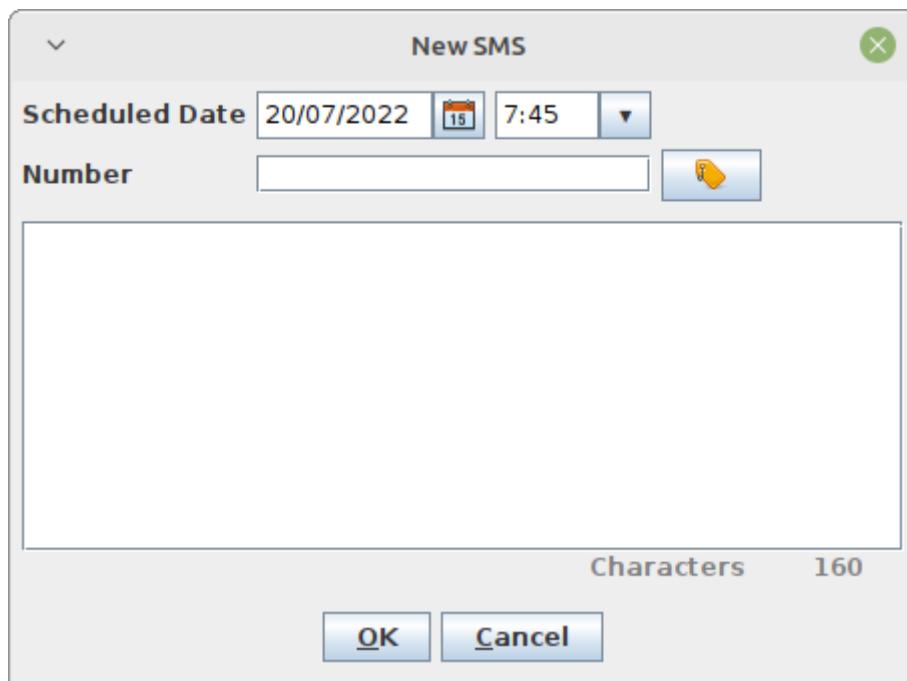
At the bottom of the window are three buttons: **New**, **Delete**, and **Close**.

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. You can 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).

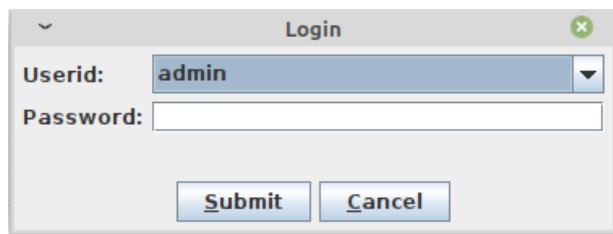
Then click **OK** to save the new SMS. If the scheduled date and time are now, the SMS is sent immediately.

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 successfully logged into the system, if enabled by the Administrator, the **Users & Groups** button in the **Settings** submenu is available.

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:

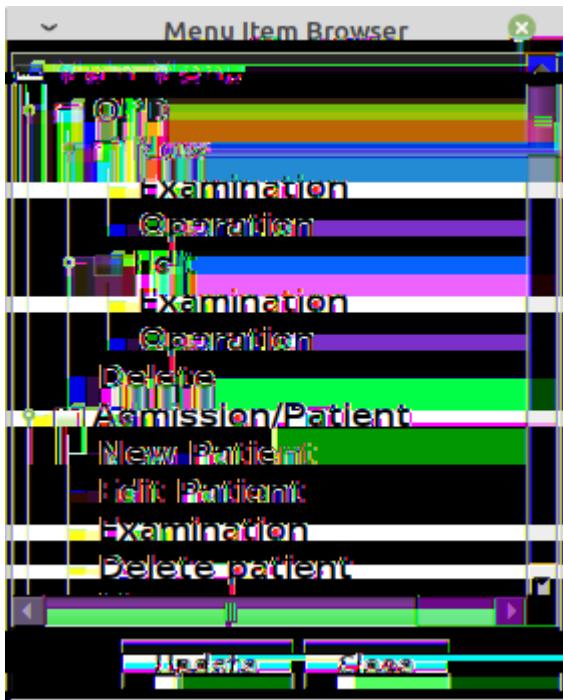
Groups Browser	
GROUP	DESCRIPTION
admin	USER with all the privileges
guest	Read Only Users

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:

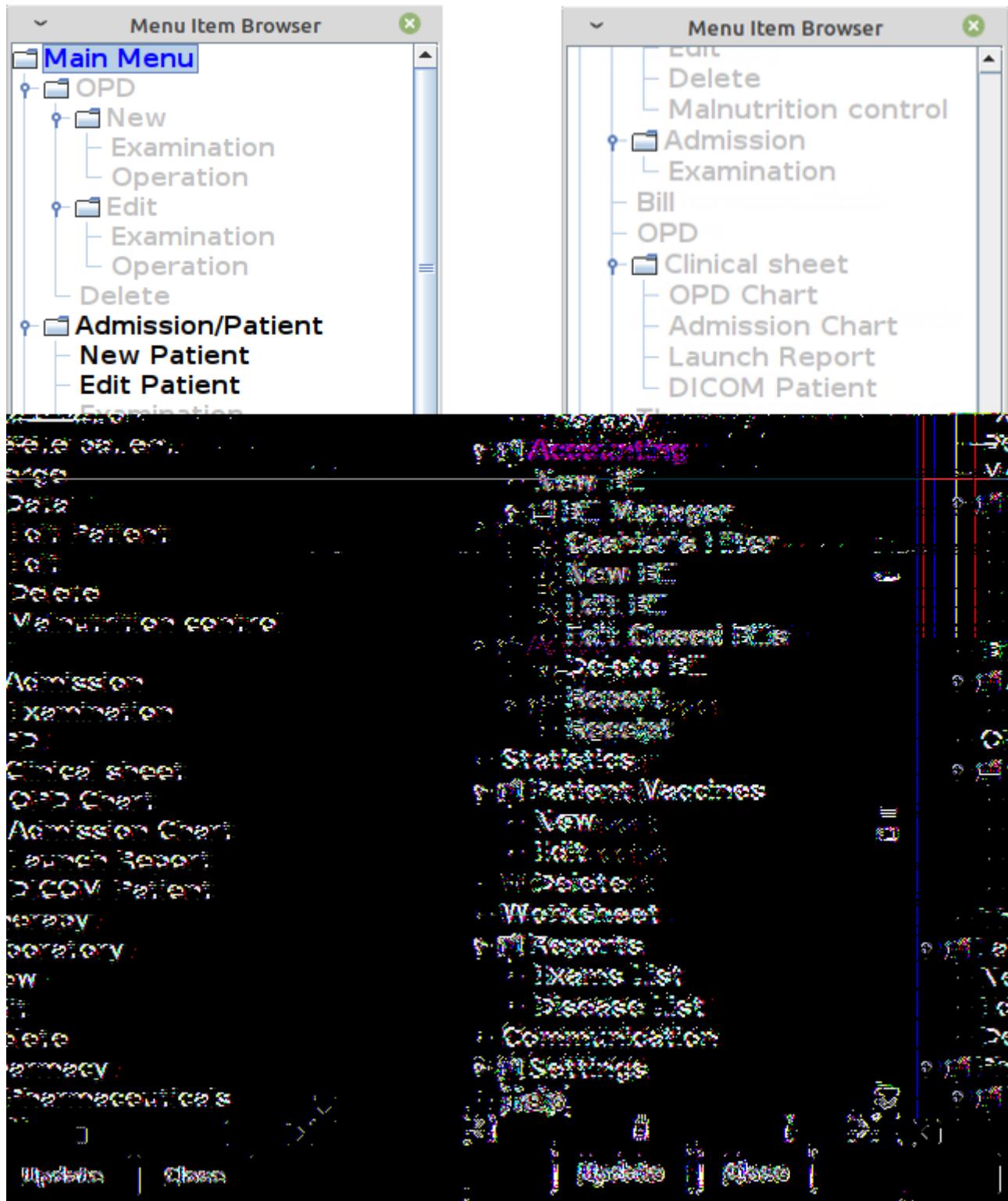


The window shows the full set of functions available in Open Hospital in a tree format:

- main is the “trunk”: the main menu
- **Blue** nodes are the “branches”: menus and windows
- **Black** nodes are the “leaves”: buttons and functions

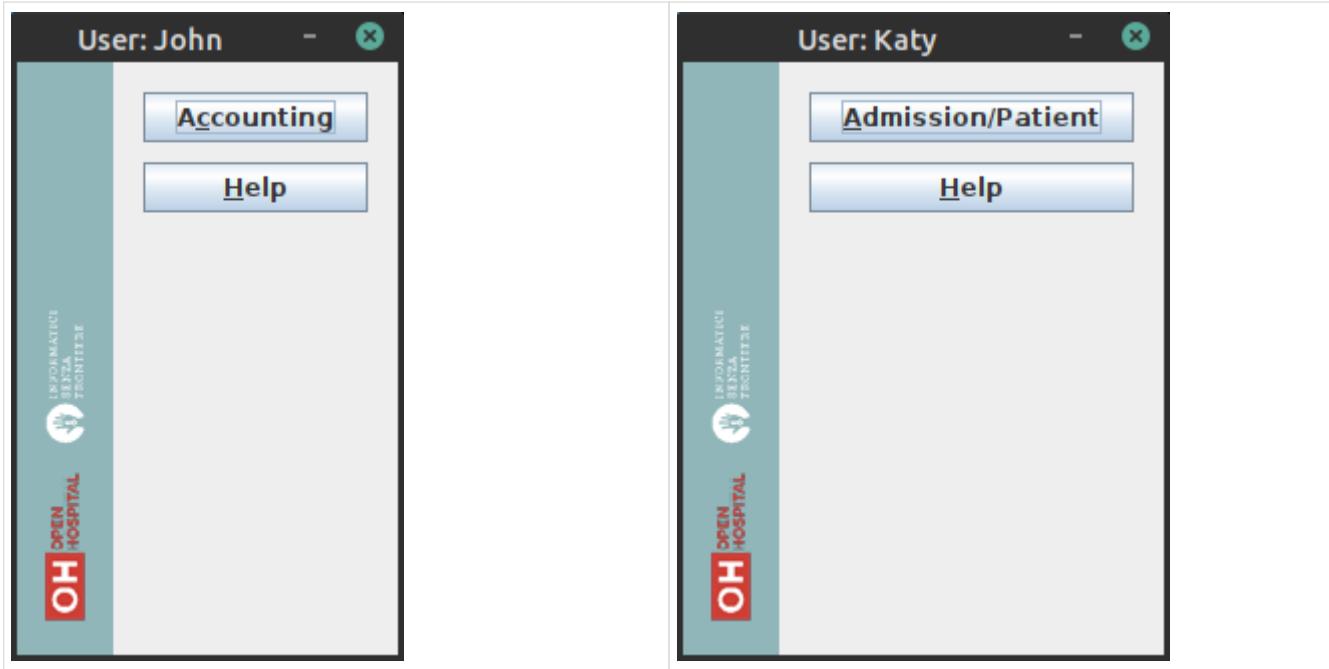
Double-clicking on each branch or leaf enables or disables that function or set of functions for the selected group.

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	GROUP	DESCRIPTION
admin	admin	Administrator
Alain	admin	
Bob	admin	
guest	guest	Guest
John	admin	
Jeanne	Cashier	Cashier
Katy	Registration Office	Receptionist
Vicky	admin	

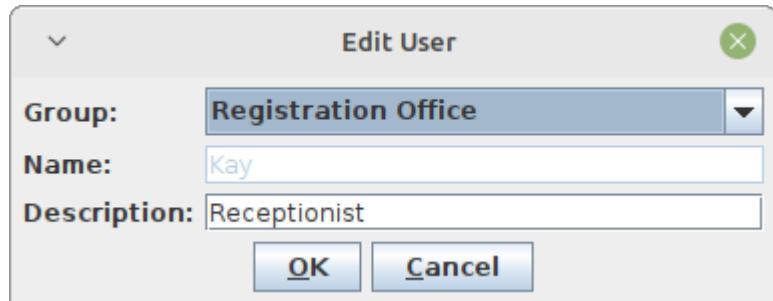
Below the table, there are buttons for "Select groups" (with dropdown menus), "New", "Edit", "Reset Password", "Delete", and "Close".

The functions available in this window are:

- **Selected 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, only the group and the description can be modified.

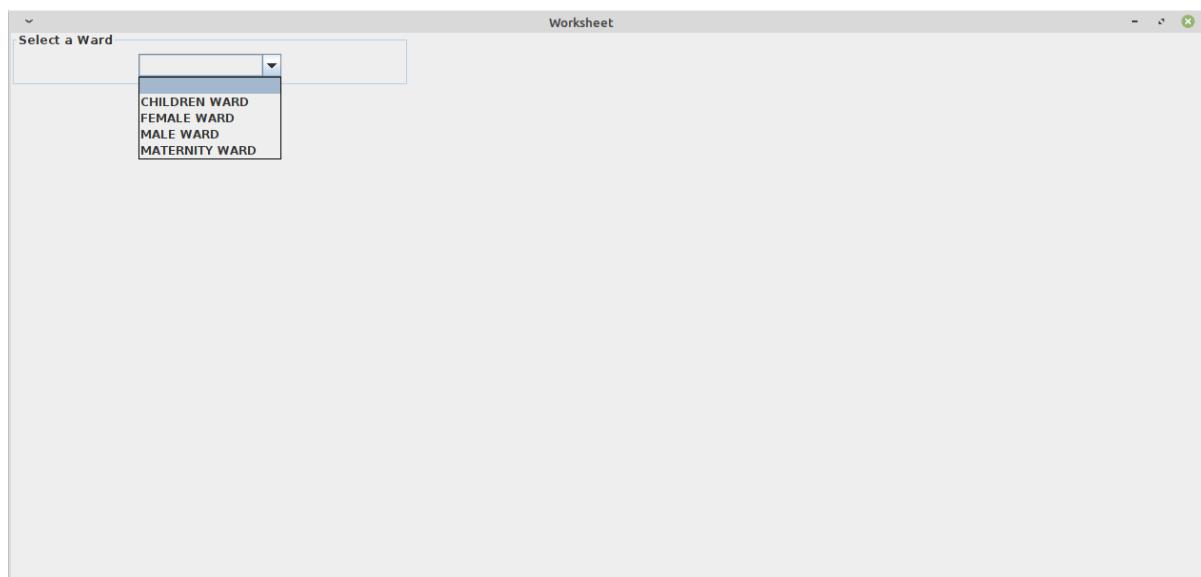
13 Worksheet (Worksheet)

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 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):

Worksheet

Select a Ward FEMALE WARD	Go to date: <input type="text" value="29/07/2022"/> <input type="button" value="Today"/>	Today							
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> 29/07/2022 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr><th style="text-align: left;">Visits</th></tr> </thead> <tbody> <tr><td>06:30 - (Pat. ID: 505) - Curtney Gina - N/D (20Min)</td></tr> <tr><td>08:10 - (Pat. ID: 512) - Millman Enriqueta - N/D (20Min)</td></tr> <tr><td>13:10 - (Pat. ID: 560) - Zoey Watkins - N/D (20Min)</td></tr> </tbody> </table> </div> <div style="width: 45%;"> 30/07/2022 <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr><th style="text-align: left;">Visits</th></tr> </thead> <tbody> <tr><td>09:30 - (Pat. ID: 510) - Racuba Scottie - N/D (20Min)</td></tr> <tr><td>10:50 - (Pat. ID: 519) - Jeanna Rickember - N/D (20Min)</td></tr> </tbody> </table> </div> </div>			Visits	06:30 - (Pat. ID: 505) - Curtney Gina - N/D (20Min)	08:10 - (Pat. ID: 512) - Millman Enriqueta - N/D (20Min)	13:10 - (Pat. ID: 560) - Zoey Watkins - N/D (20Min)	Visits	09:30 - (Pat. ID: 510) - Racuba Scottie - N/D (20Min)	10:50 - (Pat. ID: 519) - Jeanna Rickember - N/D (20Min)
Visits									
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Visits									
09:30 - (Pat. ID: 510) - Racuba Scottie - N/D (20Min)									
10:50 - (Pat. ID: 519) - Jeanna Rickember - N/D (20Min)									
<-Prev.									
		Next->							
<input type="button" value="Add Visit"/> <input type="button" value="Remove Visit"/> <input type="button" value="Print this day's visits (1)"/> <input type="button" value="Add Visit"/> <input type="button" value="Remove Visit"/> <input type="button" value="Print this day's visits (2)"/>									
<input type="button" value="Close"/>									

Another date can be selected with the **Go to date** field or reset the schedule back to today with the button **Today**. In all cases, the window always shows the chosen date on the left and the following day on the right.

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.



To schedule a visit can also be done in the **Therapy Management** module, see [Therapy Management](#)

14 License



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