

Operating Room and Anesthesia Journal (OranJ) User Manual

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1. The OranJ system



For general and detailed information about the Product environment and the instructions for use of the Control Bar software, see the specific documents for the Product. The knowledge and understanding of these documents is mandatory for an appropriate and safe use of the OranJ software, described in this document.

1.1. Introduction

The set of modules forming the OranJ (Operating Room and Anesthesia Journal) system provides a complete documentation of operations in the operating room both at surgical block and individual room level.

1.2. General structure

OranJ is structured to supply a constantly up-to-date picture of the situation in the surgical block or individual room. The workstations are configured to provide all and only the information relevant to the user concerned.

This means that every workstation enables the use of the program functions concerning the specific user.

There are four types of standard configuration:

- 1) GENERAL CENTRAL STATION: intended for use inside the surgical block. This makes it possible to display the situation of every single block and to operate on it.
- 2) BLOCK CENTRAL STATION: intended for use inside a specific surgical block. It has the same functions as the GENERAL CENTRAL STATION, but limited to block level.
- 3) OPERATING ROOM: intended for use inside the operating room. It makes it possible to manage all the activities of the individual room.
- 4) CHECK IN: intended for procedures relating to the admission of the patient to the surgical block.

1.3. Colors and operation state in OranJ

The term "operation state" indicates a standard meaningful moment in the patient's operating process.

Four different operation states are possible.

- 1) Scheduled the operation has been scheduled;
- 2) Ready the patient has undergone block check-in;
- 3) In progress the patient has entered the operating room;
- 4) Completed the operation has been completed.

On the pages of OranJ, each of these four states is identified by a color.

- 1) Light gray: indicates that the operation is scheduled (Scheduled).
- 2) Green: indicates that the patient has undergone block check-in (Ready).
- 3) Cyan: indicates that the patient has entered the operating room (In progress).
- 4) Dark gray: indicates that the operation has been completed (Completed).

The Digistat Smart Scheduler/OranJ combined system envisages six different operation states. The first two (in logical and chronological order) are "foreseen" and "requested". These two states are managed by the Digistat Smart Scheduler system and are not displayed by the OranJ system. It is moreover possible (in ways depending on the specific configuration) to activate on "OranJ" an ulterior state which makes an operation impossible to edit. The

operations, when in this state, are "Read only". A darker shade of gray characterizes this state.

1.4. The "List of operations" page

To access the "List of Operations" page (Fig 2)

Click the **Patient** button on the Digistat Controlbar (Fig 1 A).

	(A)							
	Choose patient		<u>्रि</u> adm	GENERAL CENTRAL	O9:43	(?)		
Fig 1 - Control Bar								

A page similar to that shown in Fig 2 is displayed.

The "List of Operations" screen is formed of three main areas:

- 1) The lists of operations (grouped by state Fig 2 A);
- 2) The filter buttons (Fig 2 **B**);
- 3) The command bar (Fig 2 **C**).



Fig 2 – List of operations

1.4.1. The list of operations

The operations are displayed as colored boxes (Fig 2 **A**, Fig 3).



Boxes are arranged into four columns. Every column corresponds to an "operation state", it includes all the operations in that state that are scheduled for the selected day and operating block (see paragraph 1.3 for a description of the possible states)

The page shows all the operations scheduled for the current day, plus any operations begun on previous days and still in progress.

The color of the operation boxes indicates the "state" of the corresponding operation (See paragraph 1.3 for an explanation of the association between color and operation state).

Operation information is displayed in the box. On the right (Fig 3 **A**) the following information can be displayed:

- The patient's name;
- The type of operation;
- The hospital unit requesting the operation.

On the left (Fig 3 **B**) the following information can be displayed:

- The planned room (room 6 in Fig 3);
- The planned block (BLO in Fig 3);
- The operation scheduled start time (10:35 in Fig 3).



The kind and position of the information displayed in a box depend on the configuration in use. Thus the information can be different from that displayed in the examples here described.



If an operation is assigned to a block and a room that are different from those specified in the scheduling phase, the corresponding operation box (Fig 3) shows the actual block and room (no longer the scheduled ones). The block and room originally scheduled are still indicated on the record shown on the "Patient and Operation Details" page (described in paragraph 3).

The box can contain small yellow or red letters (Fig 4).



The yellow letters indicate the possible devices required for the operation. The letter is the initial of the name of the device.

The red letters indicate the presence of infections, allergies or transmissible diseases. This information is specified on the Digistat Smart Scheduler system.

One or more requirements can be configured to be displayed on the "Operation box". For instance: to indicate that an ICU bed is required after the operation, or to indicate that an operation requires no anesthesia. The requirement is displayed on the operation box as a small square, having customizable color and indicating the first letter of the name of the requirement.

When the left part of a box is red (as in Fig 5) it means that the operation is an "Emergency". "Emergencies" are displayed not only on the current day, but also on the pages referring to future days (see paragraph 1.4.3 for the procedure required to change the day displayed). The small number indicated in Fig 5 **A** indicates the emergency level (level 1 in the figure - the configuration here described envisages three emergency levels).



Fig 5 - Emergency

If the icon (Fig 6 **A**) is displayed alongside the patient's name it means that the patient's data is temporary. The "Temporary patient" related procedures are described in the Digistat "Smart Scheduler" system user manual.

The red triangle indicated in Fig 6 **B** means that the operation is a reserve planned for a day that is not the current day. See paragraph 4.3 for the explanation of the term "Reserve" in the "OranJ" context.



If a red cross is displayed before the operation name (Fig 7) it means that the patient entered the block and, for any reason, was not operated and checked-out immediately after.



<u>The operation boxes are click-able</u>. Click one of the boxes to access the corresponding "Home OranJ" screen. The "Home OranJ" screen makes it possible to display and manage all the information available for a specific operation. The "Home OranJ" screen, shown in Fig 85, is described in paragraph 2.1.

The boxes characterized by the *sicon* (temporary patient data) cannot be clicked

1.4.2. The filter buttons

On the left side of the screen there is a vertical bar comprising all the letters of the alphabet (Fig 2 **B**). This bar works like an index and makes it possible to display the patients whose names begin with a specific letter.

For example, click the **AB** button on the bar once and only patients whose names begin with the letter A appear.

Double click the same button and only patients whose names begin with the letter B appear.

Click the **All** button to see the complete list of patients.

1.4.3. "List of operations" screen command bar

The command bar of the "List of operations" screen (Fig 2 **C**, Fig 8) contains several buttons making it possible to perform specific operations.

BH05	OTHER	NONE		TODAY			CLOSE	
Fig 8 – Command bar ("List of operations" screen)								

The specific function of each button is described in the following paragraphs.



The command bar may appear differently depending on the type of workstation you are using. Some buttons are not enabled if the related functionality is not relevant for the specific workstation goals.

1.4.3.1. Block selection

The first button on the left (**BH05** in the figure) shows the name of the operating block currently displayed.

The button can be used, if the workstation is a General Central Station, to display the data relating to another surgical block. To do that

Click the block selection button.

A list of all the blocks configured in the OranJ system opens (Fig 9).

HEL		
BH07		
BH05		
BH05	OTHER	Ń

Fig 9 – Block selection

Click the button corresponding to the relevant block.

The data relating to the selected surgical block will be displayed.

1.4.3.2. Selection of another patient

To select a patient that is not currently displayed on screen

> Click the **Other** button on the command bar.

The Patient Explorer module opens. See the patient explorer user manual (USR ENG Patient Explorer) for instructions.



Other modules can be configured for the patient selection in place of Patient Explorer, depending on the configuration of the Digistat Suite. If this is the case, see the specific documentation for instructions.

1.4.3.3. Patient deselection

The **None** button makes it possible to deselect the patient currently selected. The name of the selected patient is displayed on the **Patient** button on "Control Bar". To deselect the patient currently selected.

Click the None button.

The patient's name disappears from the **Patient** button.

1.4.3.4. Displayed day selection

The **Today** button makes it possible to display the data relating to a different day.

To change the day displayed on screen

Click the **Today** button.

A calendar window opens (Fig 10).



The selected day is highlighted in yellow.

You can use the arrows indicated in Fig 10 **A** to change month. If it is April, for example, click the right arrow to display the calendar for May and the left arrow to display the calendar for March.

After selecting the month

Click the day you wish to display.

The day selected on the calendar will become yellow.

The page relating to the day selected will be automatically displayed.

If the reference day has passed, the page is divided into two columns (planned operations and completed operations).

If the reference day is in the future, the only operations displayed will be those planned (there will be a single light gray column).

If you select a different day from the current one, the **Today** button will show the date of the day displayed.

To return to the current day

> Click, on the calendar, the button indicated in Fig 10 **B**.

To close the calendar

Click the Close button indicated in Fig 10 C.

1.4.3.5. Closing the "List of operations" screen

To close the "List of operations" screen

> Click the **Close** button on the command bar.

2. The "OranJ" module

The Digistat OranJ module makes it possible to manage and document all the activities relating to an operation.



The OranJ module is installed on GENERAL CENTRAL STATION, BLOCK CENTRAL STATION and OPERATING ROOM Workstations.

2.1. "OranJ Home" screen

When accessing the "OranJ" module, the "OranJ Home" screen is displayed (Fig 12). This page is accessed when

a) You select the OranJ module icon on the side bar -

b) You select a patient and/or an operation wherever this is possible.

The screen is formed of three main areas that will be described in the following paragraphs. These are:

- 1. The operation data (Fig 11 A);
- 2. The command bar (Fig 11 B);
- 3. The chronology of the operation (markers list Fig 11 C).



Fig 11 - OranJ Home

2.2. Operation data

The area shown in Fig 12 makes it possible to record and display all the operation's relevant data.



Fig 12 – Operation data

The "Operation data" area is itself divided in further different sections, each of which is related to a set of features of the operation.

These sections are here listed and briefly described. A detailed description is provided in the paragraphs indicated.

- **"Patient"** area (Fig 12 **A**). Summarizes the data of the patient and the operation. Click it to access the "Patient and Operation Details" page (paragraph 3).
- **"Note"** area (Fig 12 **B**). Shows any notes concerning the operation or the patient. Click it to open a keyboard window and add a note (see paragraph 2.6 for the related procedures).
- "Drugs, events and notes" area (Fig 12 C). Shows the complete list of events recorded during the operation, the drugs administered and the notes added, in chronological order. Click it to access the "Events" page and enter, delete or edit these events (paragraph 2.5).

- "Staff" area (Fig 12 D). Shows the list of names and roles of staff involved in the operation. Click it to access a page to edit this list and manage changes in room staff in real time (paragraph 2.10).
- **"Materials and resources**" area (Fig 12 **E**). Shows the list of materials and instruments used during the operation. Click it to access a page to manage the resources scheduled and to add or eliminate them if necessary during the operation (paragraph 2.11).
- **"Room**" area (Fig 12 F). Indicates the surgical block and operating room. This section cannot be clicked. In the event of a change in the room scheduled for the operation, this must be recorded using the OranJ Plan module (paragraph 4) or the "Patient and Operation Details" page (paragraph 3).
- **"Residual time**" area (Fig 12 **G**). Indicates the time remaining until the end of the operation according to the scheduled duration. This quadrant works like a countdown which starts when the patient enters the room (paragraph 2.9).

2.3. Command bar

The command bar of the main page of the OranJ module contains a series of buttons which make it possible to directly access some of the pages and functions described in this chapter. These are shortcut buttons to facilitate access to those operations performed more frequently.

This bar is configurable: i.e., the number and function of the buttons change to suit the specific user's needs. The figure below should only therefore be considered as an example.



Fig 13 – OranJ module command bar

In the example shown here, the **Note** button (Fig 13 **A**) makes it possible to directly access the page used to add a note. Use the **New Res.** Button (Fig 13 **B**) to directly access the page to manage the operation room resources. Each of these pages is described in detail during this chapter.

Similarly, the other buttons, when so configured, offer direct access to those pages and functions which, depending on the user's needs, are used most frequently.

2.4. Operation chronology: the "Markers"

The left side of the screen (Fig 12 **C**) shows the sequence of events that make up an operation, in chronological order.

It is assumed that certain events are repeated for all operations and that they occur in a specific order. These are known as "<u>Markers</u>".

A marker follows the other, both chronologically and logically. The OranJ system envisages 6 markers as standard:

- Block in (the patient has undergone block check-in)
- Room in (the patient has undergone room check-in)
- Skin incision
- Suture
- Room out (Operation done)
- Block exit



The number and nature of Markers, as well as their sequential logic, can be configured to suit the specific healthcare structure's needs. The example here refers to a configuration which comprises the events most commonly used.

2.4.1. Markers sequence

The markers appear as a sequence of boxes (Fig 14). The boxes are arranged in chronological and logical order.



Fig 14 – Markers sequence

The first box, relating to entrance into the surgical block, appears when an operation is scheduled. The box is yellow and contains no information on the moment (date and time) in

which the event occurred (Fig 15). This means that the event has not occurred (the patient has not yet entered the block).



Fig 15 – First marker

When the patient physically enters the surgical block, to record the event, the user has to simply click the box.

At this point, if specified by configuration, patient identification is necessary. Patient identification procedure is described in paragraph 2.4.2.



If an OranJ "Check In" workstation is active it is used to manage the patient's block entrance. OranJ "Check In" is described in paragraph 7.

After patient identification the box becomes gray and records the time at which it is clicked. A new ochre yellow box (or several boxes, depending on the configuration) indicating no time appears below it. New boxes refer to subsequent events (Fig 16).



The system can be configured to show the date of entry as well as the time.



Fig 16 – Second marker

The events this way recorded appear at the same time in the "drugs, events and notes" area of the page (Fig 17).



Fig 17 – Markers sequence

In general, to record a marker

Click the box corresponding to the event.

When the patient enters the operating room (the corresponding marker is called "room in") the system, if so configured, requests renewed confirmation of the patient's identity by means of a page similar to that shown in Fig 21. The identification procedure is the same as that described in paragraph 2.4.2, apart from the fact that identification can occur by means of barcode, patient code and also reservation number or the admission code (Fig 18). This form enables to specify the actual room and block of the operation.

PATIENT IDENTIFICATION	\diamond			
Patient Code				
Admission Code				
	Female, Weight kg I. ADMIN, hereby declare to have thoroughly verified the			
Reservation Code	identity of patient			
Actual Block	Actual Room			
BH05	9			
Password	VERIFY CANCEL			
\ I 2 3 4 5	6 7 8 9 0 ' i back			
tab q w e r t				
	y u i o p è + ú			
lock a s d f	g h j k l ò à enter			

Fig 18 – Patient Identification

After identification, the "room in" box becomes gray and shows the room entrance time. The event just recorded appears at the same time in the "drugs, events and notes" area of the page (Fig 19 **A**).

The patient's entrance into the operating room corresponds to the actual operation start time. Consequently, when the "room in" event is recorded, the length of time envisaged for the operation appears in the "residual time" area (Fig 19 **B**). This area works like a clock which performs a countdown (see paragraph 2.9 for a detailed description of this area). The recording of the "room in" event sets off the countdown.

Entrée au Bloc 16.25 Entrée en Salle 16.45	PATIENT I (29y) Dermolipectomie cuisse:	B	ROOM BHO5 8 Residual time 01.34
Remise au chirurgien Sortie de la Salle 	NOTE	STAFF	
A	DRUGS, EVENTS AND NOTES 16:25 - Entrée au Bloc 16:45 - Entrée en Salle	MATERIALS AND RESOURCES 1 - Base 2 - n°1 9 - INSTRUMENT 1 - Lac vasculaire maxi bleu 2 - Redon avec aiguille CH9	

Fig 19 – Markers sequence

Every time an event is recorded, it appears in the "drugs, events and notes" area. When the "room out" event occurs, the operation is over. The countdown of the "residual time" area stops and this area shows the actual duration time of the operation (in the form "Completed in hh:mm").

2.4.2. Patient identification

The possibility of entrance to the block and room is subject to identification of the patient if so specified by configuration. When the entrance of the patient into the block is recorded the system opens a specific window requesting confirmation of the patient's identity (Fig 20).

Patient Code 2006					
				IDENTIFY	CANCEL
					CAITCEL
	2 3	4 5 6	7 8 9	0 ' i	back
tab q	w	r t	y u i	o p è	+ ù
lock	a s	d f g	h j k	l ò à	enter
shift	z x	C Y	b n m ,		shift
ctrl wi	alt		alt gr	menu	

Fig 20 – Patient identification

To identify the patient

- > Enter the patient code in the "Patient Code" field (Fig 20 A).
- Click the Identify button (Fig 20 B)

or, if the function is available

Scan the patient's barcode.

Click the Identify button (Fig 20 B)

A window containing the patient's data and a declaration of acceptance of responsibility by the user appears on the screen (Fig 21).

PATIENT IDENTIFICATION	\$
Patient Code	Born on, agey Male, Weight kg I, ADMIN, hereby declare to have thoroughly verified the identity of patient
Password	VERIFY CANCEL
I I <th>6 7 8 9 0 ¹ i back y u i o p è + ü</th>	6 7 8 9 0 ¹ i back y u i o p è + ü
lock a s d f shift Z X C V ctrl win alt	g h j k l ò à enter b n m , - Shift alt gr menu

Fig 21 – Identification window

To complete the procedure the user has to

- > Enter his/her password in the "Password" field (Fig 21 A).
- Click the Verify button (Fig 21 B).

The first event (entrance to the block) will be this way recorded.

You may abandon the procedure at any time by clicking the **Cancel** button (Fig 21 C).

2.4.3. Markers and operation state changes

The changes in the operation state are linked to some of the markers recorded on the "OranJ Home" screen. The recording of the marker determines a change in the operation state.

- The "Block entrance" marker implies passage from "Planned" state to "Ready" state.
- The "Room in" marker implies passage from "Ready" state to "In progress" state.
- The "Cut" marker implies the end of pre-surgical time and the beginning of surgical time.
- The "Suture" marker implies the end of surgical time and the beginning of post-surgical time.
- The "Room out" marker implies passage from "In progress" state to "Completed" state.

2.4.4. Markers management

2.4.4.1. How to change the time of a marker after it has been recorded

To change the time of a marker after it has been recorded

Click the box corresponding to the marker (Fig 22 A).

A numeric keyboard is displayed (Fig 22 **B**).



Fig 22 – Markers time change

- > Enter the time required using the keyboard.
- Click again the box corresponding to the marker to record the new time.

The numeric keyboard disappears and the new time is displayed.

To hide the numeric keyboard, click the box corresponding to the event.

If the time entered is not coherent, an "invalid time" message pops-up (for example, if 15:00 p.m. is entered and the previous marker was entered at 15:30 p.m.).

2.4.4.2. Deleting a marker

To delete a recorded marker

> Click the (gray) box corresponding to the marker (Fig 22 A).

A numeric keyboard appears (Fig 22 B).

Click the C button on the keyboard.

A pop-up message requesting confirmation of the operation is displayed.

Click **Yes** to delete the marker.

Considering that one marker follows the other, not only chronologically but also logically (for example, a patient cannot be operated before entering the operating room), then **The deleting of a marker implies the deleting of all subsequent markers.**

The box corresponding to the marker deleted becomes ocher yellow again and indicates no time, meaning that the related event has not yet occurred. This box is now the last on the markers sequence list; the event related to the deleted marker is the next event to happen.

2.4.4.3. How to change the date of a marker

To change the date of a marker

Click the box corresponding to a marker (Fig 22 A).

A numeric keyboard appears (Fig 22 **B**). The keyboard displays the date on which the marker was recorded. Alongside the date there are two arrow-buttons (Fig 22 **C**).

- Click the left arrow << to bring the date of the event forward by one day.</p>
- Click the right arrow >> to postpone the date of the event by one day.



You can only change the date within the range of specific values.

It is possible to bring the date of the first event forward by one day; the date of subsequent events on the other hand can be changed between the current date and the date on which the first event is recorded.

2.5. "Drugs, events and notes" area

Several kinds of events can be associated to an operation. The OranJ system makes it possible to configure a series of events which make it possible to describe the chronology of an operation in detail. The nature and number of these events are decided during configuration. In general, these are data relating to drugs administered (type, quantity, boluses), operating procedures implemented or possible complications which might occur during or after the operation is indicated.

These events are recorded on the "Events" page (Fig 24).

To access the "Events" page, on the "OranJ Home" page (Fig 23),



 \succ Click the "drugs, events and notes" area of the screen (Fig 23 **A**).

Fig 23 - OranJ Home

The "Events" page will open (Fig 24).

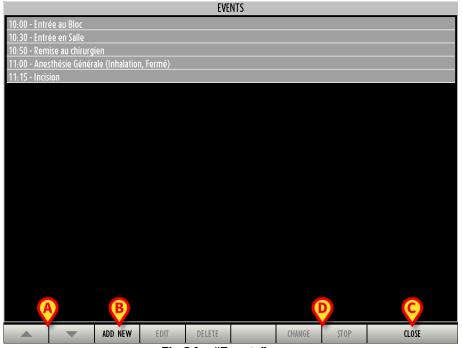


Fig 24 – "Events" page

The "Events" page shows all the events associated with the operation in chronological order, together with the markers and any notes added.

Markers cannot be edited on this page. To edit a marker, you have to use the procedure described in paragraph 2.4.

If the whole list of events cannot be displayed on the screen, you can use the arrows on the command bar to scroll the list (Fig 24 A).

To close the "Events" page, on the command bar

Click the Close button (Fig 24 C).

The system returns to the "OranJ Home" page (Fig 12).

The **Change** and **Stop** buttons (Fig 24 **D**) are used to manage those events that continue over time and which, while occurring, may be subject to changes. This is true, for example, for certain infusions for which it might be necessary to change the infusion speed while they are in progress.

- Click the Change button to access the page that makes it possible to manage the data related to the event (an example is shown in Fig 27; remember, however, that the page in question can be configured in numerous ways and changes according to the event selected).
- > Click the **Stop** button to record the end of the event in progress.

2.5.1. How to record an event

To record an event

Click the Add New button on the command bar (Fig 24 B).

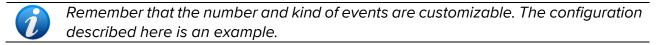
A page similar to that shown in Fig 25 is displayed.

EVENEMENTS Tous les événemen							
 NOTE	ANESTHE	SIE CO	IMP. PEROP	>			
ABC							
DEF							
IJK							
LM							
NOP							
QR STU							
VW							
XYZ							
ALL							
ALL		•			-		CLOSE
			Fia 2	5 – Adc	ling an	event	

Every type of event is represented by a gray rectangle.



In this example 3 \underline{types} of events are configured: notes, type of anesthesia and operating procedures (Fig 25 **A**).



At this point it is necessary to select one of the types (rectangles) available.

Click the type of event required.

Every "type" of event can offer access to various sub-types. In the example shown in Fig 26, the "anesthesia" event gives access to four specific types of anesthesia. Likewise, the "drugs" event can give access to a list of types of drug (sleep inducers, anesthetics, painkillers, etc.), and every type of drug gives access to a list of specific drugs (Propofol, Midazolam, etc.). To display the list of all the elements of a specific type (e.g., all drugs or all types of anesthesia)

Click the All button (Fig 26 **C**).

The elements on the list can be filtered using the index buttons on the left of the screen (Fig 26 A - See paragraph 1.4 for the explanation of how these buttons work).

EVENEM Tous les évé						
Ø	_	7	NO MORE S			
ABC	Anesthésie Générale					
DEF	Anesthésie Péridurale					
GH	Anesthésie Péridurale Anesthésie SubArachi	noïde				
IJK	Anesthésie SubArachnoïde Anesthésie Combinée					
LM	Anesthésie Combinée					
NOP						
QR						
STU						
VW						
XYZ						
ALL						0
	·					
						CLOSE
		Fig 26	 Types 	s of ane	sthesia	

To add the event, you have to select one of the items from the list.

Click the name of the event required.

By way of example, we have selected "Subarachnoid Anesthesia". This selection gives access to the page shown in Fig 27.

						P)
	Anesthésie Anesthésie SubAraci	e SubArachı	ıoïde		0	Time 11.54	
ĺ	Accéss	Median	Paramedian	Latéral			
	Zone				(
	Aiguille	A FC					
l	Pointe History					-	
	Thistory						
	_						1
(Notes			8838	<u>A</u> <u>A</u> AA ▼ _A	7 8	9
						4 5	6
						1 2	3
\bigcirc							
						0	•
						+/- C	\triangleleft
(
				INFO	KEYBOARD	OK	CANCEL
		Fig 27	' – Event: s	ubarachnoi	d anesthes	ia	

The page makes it possible to specify, in detail, the type of anesthesia administered (Fig 27 **A**).

After entering the specific values, to record the new event

Click the **Ok** button (Fig 27 **B**).

The new event recorded appears on the "events" page (Fig 24) and in the "drugs, events and notes" area of the "OranJ Form" page (Fig 23 **A**).

To cancel the operation

Click the Cancel button (Fig 27 B).

The system returns to the page shown in Fig 26 without making any changes.

To close this page and return to the "Events" page

Click the **Close** button on the page (Fig 26 **B**).



You can also record an event using the shortcut buttons described in paragraph 2.3 (Fig 13). Click the buttons on the command bar to directly access the relevant page.

The page which makes it possible to enter data relating to an event (Fig 27) changes depending on the type of event selected. While, for example, for an anesthesia you can specify the approach, location, needle, etc., for a drug to be administered, you can specify the dose, dilution, etc.

These parameters are decided during configuration and depend on the user's requirements.

Here is a description of the characteristics of the page which are common to all events.

2.5.1.1. The "notes" area

The "notes" area (Fig 27 **C**) makes it possible to add a note.

To enter a note

> Click the "notes" area.

A cursor appears inside the area.

> Enter the note using your workstation keyboard.

or

Click the **Keyboard** button (Fig 28 **D**) to display a virtual keyboard on the screen (Fig 28).

Anesth nesthésie Sul			Aracl	hnoïd	e				```````````````````````````````````	Time 11.	54
lotes						<u>;</u>	14 14 19	<u>.</u> A	<u>a</u> <i>a</i> v a		
X I	2	3 4	5	6	7	8 9	0	' i	back		
tab q	W	e	r	t y	U	i	o p	è	+ ù		
lock	a :	s d	f	g	h	j k		ò à	enter		
shift	z	x	c	v b	n	m		-	shift		
ctrl win	alt					alt gr					

Fig 28 – Virtual keyboard

When the keyboard is displayed, the **Keyboard** button is black.

To hide the keyboard on the screen

Click the **Keyboard** button again.

The buttons at the top of the notes area make it possible to use some of the most common text formatting functions (Fig 28 A).

::	change the color of the text	A	write in bold type
	align the text to the left	Â	write underlined
Ē	center the text	A	write in italics
1	align the text to the right	▲A	enlarge the character used
١Ē.	create bulleted lists	▼ A	shrink the character used

2.5.1.2. Information

The **U** button (Fig 28 **B**), like the **Info** button (Fig 28 **C**), makes it possible to access a page containing information on the event being added (Fig 29).

Anesthésie SubArachnoide	Time	11.54	
NOTES			_
	7	8	9
REFERENCE INFO	4	5	6
	1	2	3
)	
	+/-	C	▼
Fig 29 – Event information		OK	CANCEL

The page can contain notes, bibliographic references, pictures, etc...

To exit the information page

Click the **1** button again or click the **1** button.

2.5.1.3. Time

The "Time" field (Fig 27 **D**) shows the current time if you are entering a new event and shows the time at which the event was entered when displaying an event entered previously. The time can be changed using the numeric keyboard shown in Fig 27 **G**.

2.5.1.4. Picture

The white box on the right of the page (Fig 27 E) can contain a picture relating to the event being recorded; if it is a drug, for example, the box may contain the photo of the drug in question.

2.5.1.5. History

The history area (Fig 27 F) displays information on all the past recordings of the same event.

2.5.1.6. Numeric keyboard

The numeric keyboard (Fig 27 **G**) makes it possible to enter numeric values in the fields on the page. To do this, it is necessary to click the field in which you wish to write and then use the keyboard number buttons.

2.5.2. How to edit an existing event

To edit data relating to an existing event, to enter a note relating to the event or to display all the details relating to that event:

Click the event to be edited, on the "Events" page (Fig 24)...

The line corresponding to the event appears highlighted (Fig 30).

EVENTS		
10:00 - Entrée au Bloc		
10:30 - Entrée en Salle		
10:50 - Remise au chirurgien		
11:00 - Anesthésie Générale (Inhalation, Fermé)		
11:15 - Incision		
A B		
ADD NEW EDIT DELETE	CHANGE STOP	CLOSE
Fig 30 – Event sel	ected	

On the command bar

Click the **Edit** button (Fig 30 **A**).

This directly accesses the page that shows the details of the event selected (Fig 31).

Anesthésie	Générale					0	Time	11.00	
Type Circuit History	Inhalation Ouvert Fe	TIVA rmé : Générale (Inha	TCI lation, Fermé)	Blend	led				
Notes			H E 1		А <u>А</u>	AA VA	7 4 1	8 5 2	9 6 3
							+/-	C	· •
			31 – Ev	INFO	KEYBOARD			DK	CANCEL

Fig 31 – Event details

The characteristics and functions of this page are described in paragraph 2.5. You can now edit the data relating to the event. To save the changes made

Click the **Ok** button.



Remember that the markers cannot be edited or deleted from the "events" page. To edit markers it is necessary to use the procedure described in paragraph 2.4.4.

2.5.3. How to delete an existing event

To delete an event, on the "Events" page (Fig 24)

Click the event to be deleted

The line corresponding to the event is highlighted (Fig 30).

> Click the **Delete** button on the command bar (Fig 30 **B**).

User confirmation is required.

Click **Yes** to delete the event.

The deleted event disappears from the "Events" page (Fig 30) and from the "Drugs, events and notes" area of the "OranJ Home" page (Fig 23 **A**).



Remember that the markers cannot be edited or deleted from the "events" page. To edit markers it is necessary to use the procedure described in paragraph 2.4.4.

2.6. The "Notes" area

To add a note to the operation selected

> Click the "Notes" area of the "OranJ Home" page (Fig 33 A).



Fig 32 - OranJ Home

A virtual keyboard appears on the screen (Fig 33).

OPERATION NOTES			\diamond
Notes	A		± E A <u>A</u> <i>F</i> 4A ▼a
Test test test note			
		ОК	CANCEL
	4 5 6 7	8 9 0	' i back
tab q w		8 9 0 0	' i back
tab q w		u i o p	

Fig 33 – Virtual keyboard

- Use the keyboard to enter the note.
- Click **Ok** to record the note.

or

> Click **Cancel** to cancel the operation.

The buttons at the top of the keyboard (Fig 33 A) make it possible to use some of the most common text formatting functions.

::	change the color of the text	A	write in bold type
	align the text to the left	Â	write underlined
Ē	center the text	A	write in italics
	align the text to the right	▲A	enlarge the character used
١Ē.	create bulleted lists	▼ A	shrink the character used

The note is displayed in the "notes" area of the "OranJ Form" page (Fig 34).

NOTE
Test test test note
וראו ובאו ובאו וראו וועוב
Ela DA Mata

Fig 34 - Note

2.7. The "patient" area

The "patient" area of the "OranJ Form" page (Fig 35 **A**) shows the name of the patient for whom the operation is scheduled.

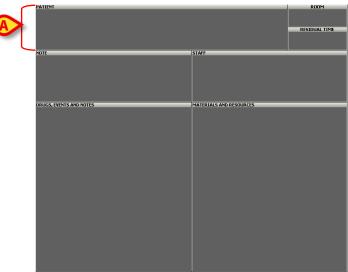


Fig 35 - OranJ Home

This area may also contain, depending on the configuration, the operation reservation code, the type of operation envisaged and, where specified, the location which has requested the operation.

PATIENT			
[,	(31v)		
Mammoplastie de redu			
	Fig 36 – "Pati	ient" Area	

The "patient" area makes it possible to access the "Patient and Operation Details" page (Fig 74).

To access the "Patient and Operation Details" page

Click the patient area.

The "Patient and Operation Details" page containing the data of the patient and the operation selected opens. See paragraph 3 for a detailed description of this page.

2.8. The "room" area

The "room" area (Fig 37 \bf{A}) shows the block and the operating room scheduled for the operation.

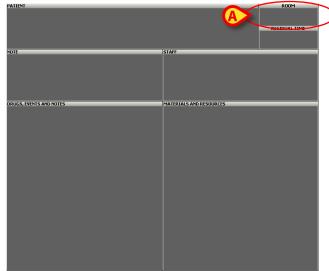


Fig 37 - OranJ Home

In the example shown in the figure "BH05" is the surgical block, "8" is the room number.



The "room" area cannot be clicked. If there are changes concerning to the block or the room scheduled for an operation, these must be recorded on the "Patient and Operation Details" page (paragraph 3).

2.9. The "residual time" area

The "residual time" area (Fig 39 **A**) indicates the time remaining until the end of the operation with respect to the scheduled duration. The residual time is the sum of the pre-surgical, surgical and post-surgical times specified either on the "Patient and Operation Details" (Fig 78) or, if in use, on the "Smart Scheduler" application.

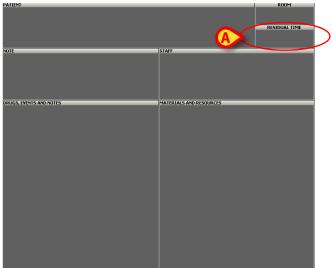


Fig 39 - OranJ Home

This quadrant works like a countdown. The example shown in Fig 40 indicates that there is 1 hour and 27 minutes left until the end of the operation (according to the planned duration).



The countdown starts when the "Room in" marker is recorded (see paragraph 2.4 for a description of the markers).

Before the patient enters the room, the area appears as shown in Fig 41.



When the countdown approaches zero (in the configuration used in the example, when the remaining time is less than thirty minutes) the residual time area turns yellow and starts flashing (Fig 42).



When the actual operation time exceeds the time scheduled, the "residual time" area continues flashing and turns red. The value shown on it becomes negative and starts indicating how much of a delay is being accumulated (Fig 43).



It is possible to signal, while the operation is in progress, that the operation is requiring more time than scheduled.

To do that

Click the "Residual time area".

A quadrant containing four buttons opens (Fig 44).

residual time 01.00					
+ 0.10	- 0.10				
+ 1.00	- 1.00				
Fig 44					

Click one of the buttons.

This first click brings the counter back to zero.

- > Click the buttons to indicate the time remaining.
- The button adds 10 minutes to the scheduled duration.
- The button deducts 10 minutes from the scheduled duration.
- The button adds an hour to the scheduled duration.
- The button deducts an hour from the scheduled duration.

The "residual time" area indicates now the new duration. Length of the operation-box on the OranJ planning screens changes accordingly (see paragraph 4 for more information about this feature).

To hide the four buttons, click the "residual time" area again.

The request for additional time can have an impact on the other planned operations. The operations planned after the current one in the same room move to the right on the plan (i.e. they are delayed) according to the additional time requested.

Analogously, if the current operation shares a planned resource with an operation on a different room (can be in a different block as well), a pop up message is displayed, asking the

user if he/she wants to "release" the resource from the second operation. If the resource is released ("Discard resources" option on the pop-up message), then a generic resource (not an actual one anymore) is associated to the second operation and the additional time requested on the first one has no impact on it. If the resource is not released ("Push interventions" option on the pop-up message), then the additional time requested on the first operation "moves to the right" the second one (i.e. it is delayed) according to the amount of time requested. Note that the two operations can be in different rooms/blocks.

The scheduling of available resources can be performed on the "Resources" module belonging to the Digistat Smart Scheduler system. See the Digistat Smart Scheduler User Manual), paragraph "Resource", for instructions on this topic.

2.10. The "staff" area

The "staff" area (Fig 45 **A**) indicates the names and relative roles of the room staff assigned to the operation.



Fig 45 - OranJ Home

You can record any changes in the room staff while the operation is in progress.

To record a change in the room staff

Click the "staff" area (Fig 45 A).

The page shown in Fig 46 opens.

2.10.1. "Room Staff" page description

The "Room Staff" page (Fig 46) is formed of four columns.

A		B	<u> </u>		Ø			
ROM		SOMNEL	OPERATION STAFF		V			
PLANNED	AB							
CADRE ALG RESP	CD							
INF SR	EF							
	GH							
1er OP	IJ							
2eme OP	KL							
1er ASS	MN							
2eme ASS OP	OP							
OP ENSEIGNANT	QR							
UP ENSEIGNANT	ST							
STAG OP	UV							
op invite	WX							
MDALG RESP	YZ							
MDALG ENS_ANT	ALL	F	E	1				
	±							
			REMOVE	QUIT ALL	CLOSE			
	Fig 46 – Room staff							

The "role" column (Fig 46 **A**) contains a list of the possible roles of the staff involved in the operation. Every role is characterized by a color.

The number and nature of the roles can be configured to reflect the real organization of the structure using the software.

After the role has been selected, the "personnel" column (Fig 46 **B**) contains the list of persons who are able to cover the required role (see the following paragraph for the selection procedure).

After the person has been selected the "Operation staff" column (Fig 46 C) contains the names of the personnel actually involved in the operation (see the following paragraph for the selection procedure).

When the staff is selected, the fourth column (Fig 46 **D**) contains a numeric keyboard which makes it possible to specify the room entrance and exit times of every member of staff.

The buttons containing the letters of the alphabet (Fig 46 **E**) make it possible to filter the list of names displayed. Click one of the letters to display the names that begin with that letter only. Click the **All** button to display the list of all the names.

The arrows at the bottom of the two central columns (Fig 46 **F**) make it possible to scroll up and down the list of names displayed.

The command bar of the page contains three buttons

						Ø	₿	Q
	_	_	_		_	REMOVE	QUIT ALL	CLOSE
Fig 47 – Command bar of the "Room Staff" page								

The **Close** button (Fig 47 **C**) closes the page. Click **Close** to return to the "OranJ Form" page (Fig 45).

The **Quit All** button (Fig 47 **B**) makes it possible to assign the whole staff the current time as the room exit time. For example, if an operation ends at 15.00, and the **Quit All** button is then clicked, 15.00 o'clock is indicated as the room exit time for the whole staff.

The **Remove** button (Fig 47 **A**) makes it possible to remove a member of the operation staff (see the following paragraph for the selection procedure).

2.10.2. Operating staff management

2.10.2.1. How to select a staff member

To select a member of the room staff

Click one of the roles indicated in the "role" column (Fig 46 A)

In the "staff" column, the list of all the people who can perform that function appears. For example, if I click "1er OP", the list of all the "first operators" appears in the second column (Fig 48).

ROLE		PERSONNEL	OPERATION STAFF					
PLANNED	AB	· · · · · ·						
CADRE ALG RESP	CD	• • ••••••						
INF SR	EF GH	· · · · · · · · · ·						
1er OP	- U	• • • • •						
2eme OP	KL							
1er ASS OP	MN	••••••						
2eme ASS OP	OP	···· · •··						
OP ENSEIGNANT	QR ST	···· · · · · ·						
STAG OP	JI UV							
OP INVITE	WX							
MDALG RESP	YZ	· · · · · · - ·						
MDALG ENS_ANT	ALL							
_								
			REMOVE	QUIT ALL	CLOSE			
	Fig 48 – List of operators							

Click the name of the person who will be part of the room staff.

The box corresponding to the person disappears from the "staff" column and appears in the "operation staff" column (Fig 49). The name of the person selected is marked by the color that characterizes his/her function.

ROLE		PERSONNEL	OPERAT	ION STAFF			
PLANNED	AB	· · · · · · · · · · · · · · · · · · ·	•••••••		·		
CADRE ALG RESP	CD	• • • • •					
INF SR	EF	• • • • • •• •					
1er OP	GH Ij	••••••					
2eme OP	KL	 	-				B
1er ASS OP	MN					_IN	
2eme ASS OP	OP	···· · · · · · · · · · · · · · · · · ·	-			_OUT	
OP ENSEIGNANT	QR	····	-		7	8	9
STAG OP	ST UV	· · ·	-			5	6
OP INVITE	WX	• • • • • • • • •	-			2	3
MDALG RESP	YZ	· · · · · · · · · · · · · · · · · · ·	-			0	
MDALG ENS_ANT	ALL				+	/- C	
-				. ▼ ₹			
		Eig 40	Staff Solo	REMOVE	QUIT ALL	CLOSE	

Fig 49 – Staff Selection

At the same time, a numeric keyboard appears in the column on the right, making it possible to specify the room entrance and exit time for the person specified (Fig 49 **A**).

The entrance and exit time should be entered when every member of staff actually enters or exits the room.

The small clocks Highlighted in Fig 49 **B** make it possible to automatically assign the person selected the current time as the entrance or exit time.

The staff selected appears in the "staff" area of the "OranJ Form" page (Fig 50).

STAFF	
1er OP:	
1er ASS OP:	
INFALG: IIIIIIIII	
INSTRUM. 1: ELLER TELER	

Fig 50 – Operation Staff

2.10.2.2. Recording the entrance and exit time of a member of staff

To record the entrance and exit time of a member of staff

Click the person's name.

The name is highlighted and the numeric keyboard appears on the screen.

> Enter the entrance or exit time using the buttons on the keyboard

Click the field which is not being edited (i.e., if you have entered the entrance time, click the "exit" field; vice versa, if you have entered the exit time, click the "entrance" field).

In both cases the entrance/exit time will be recorded and appear alongside the name of the member of staff selected (Fig 51).



In alternative, to record the current time as the room entrance/exit time for a member of staff, simply click the little clock alongside the corresponding field (Fig 49 **B**).

> Repeat the operation for every member of the operation staff to be entered.

2.10.2.3. Removing a member of the operating staff

To remove a member of the operating staff

Click the member of staff you wish to remove.

The box containing his/her name is selected and will appear as highlighted.

The **Remove** button on the command bar becomes active (Fig 49 C).

Click the **Remove** button.

User confirmation is required.

Click **Yes** to confirm.

2.11. The "materials and resources" area

The "materials and resources" area (Fig 52 A) contains the list of all the resources and materials used during an operation



Fig 52 - OranJ Home

You can edit the quantities indicated and, if necessary, add new resources to the list of resources used at any time.

To add a new resource

> Click the materials and resources area.

The "Resources Used" page opens (Fig 54).



The procedure here described requires, where possible, scanning the barcode of the different resources to select them. If barcode reading is not possible a manual procedure can be used. Manual procedure is described in paragraph 2.11.1.

		RESOURC	ES USED			
	ADD NEW	EDIT	U SE D	PLANNED		CLOSE
 		Fig 53 –	"Resou	rces Use	d" page	

Scan the resource's barcode

The single resource can be configured to require, after barcode is scanned, to specify the resource's serial number for further verification.

In this case, after barcode is scanned, the following window appears.

Serial Numbe	OK CANCEL
I I <thi< th=""> <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<>	9 0 ' i back
tab q w e r t y u	i o p è + ù
lock a s d f g h j	k I d à enter
shift z x c v b n	m , shift
ctrl win alt	alt gr menu
Fig 54	

Scan the barcode corresponding to the resource's "Serial number".

or

> Enter the resource's "Serial Number" (Fig 54 A), then click the Ok button (Fig 54 B).



The window shown in Fig 54 does not show up if the resource is not configured to require "Serial number" specification.

The system adds the chosen resource to the "Resources used" list (Fig 55 A).

			RESOURCE	ES USED						
A	Agrafeuse circulain Agrafeuse circulaire 21 mm	e 21 mm bla ^{blanche}	anche		rolley		<mark>1</mark> 0			
								7	8	9
								4	5	6
								1	2	3
								C)	
		Ç						+/B	с	
		ADD NEW	EDIT	USED	PLANNED			OK		CANCEL
			Fia	55 - Re	SOURCA U	cod .				

Fig 55 – Resource used

One item is recorded (as quantity). To edit quantity scan the barcodes of the additional resources.

To complete the procedure

> Click the **Ok** button on the command bar (Fig 55 **B**).

The recorded resource's name and quantity is displayed in the "materials and resources" area of the "OranJ Form" page (Fig 56 A).



2.11.1. Manual procedure

To manually record a resource

- Click the "Materials and Resources" area. The "Resources Used Screen" opens (Fig 55).
- Click the Add New button on the command bar (Fig 55 C). A page listing the available resources opens (Fig 57).

MATER	IAUX					
PLATEA	UX CEC					
ABC	Adaptateur pour seringue					
DEF	Adaptateur pour système de perfusion					
GH	Augrafeuse à peau					
IJK	Agrafeuse circulaire 21 mm blanche					
LM	Agrafeuse circulaire 21 mm noire					
NOP	Agrafeuse circulaire 25 mm noire					
QR	Ágrafeuse circulaire 29 mm noire					
STU	Agrafeuse circulare 29 mm noire Agrafeuse circulaire 33 mm noire					
WW Nor	Agrafeuse circulaire 33 mm noire Agrafeuse circulaire EEA 21 mm					
XYZ	Agrafeuse circulare EEA 21 mm Agrafeuse circulaire EEA 21 mm - Enclume Orvil					
ALL	Agrafeuse circular EEA 21 mm - Enclume Orvil Agrafeuse Alo-GIA 30-2,5					
ALL						

Fig 57 – List of Resources

In the example shown in Fig 57 the resources are grouped by type ("plateaux", "CEC"). Click one of the boxes representing the type of resource to display all the resources of that type. You can scroll the list using the arrows shown in Fig 57 **A**.

The buttons containing the letters of the alphabet (Fig 57 **B**) make it possible to filter the list displayed. Click one of the letters to display the resources whose names begin with that letter only. Click the **All** button to display the whole list. To add a new resource

> Click the name of the resource you wish to add.

The system will open a specific window requesting specification of the resource's "Serial Number" (if required by configuration - Fig 58).

"Serial Number" request depends on a configuration parameter.



Fig 58

Enter the resource's "Serial Number" manually (Fig 58 A) and then click the Ok button (Fig 58 B).

The system automatically adds the selected resource to the list of resources used (Fig 59).



Fig 59 – Resource added

2.12. "Resources Used" screen description

On the "Resources used" screen (Fig 59) the resource is displayed on one line (Fig 60). Every line contains a variety of information.



- The name of the resource is indicated on the left side (Fig 60 A).
- The **Trolley** button (Fig 60 **B**) makes it possible to indicate whether or not the resource can be fitted onto a trolley. Clicking and highlighting the button indicates that the resource can be fitted onto a cart.
- The button (Fig 60 **C**) makes it possible to add a note to the resource selected.

Click it to open a virtual keyboard which makes it possible to add possible notes (Fig 61). The operation of the virtual keyboard is described in detail in paragraph 2.6.

Agrafeuse d Agrafeuse circulaire 21		21 mm	blanche	2		0
Notes Test note, Test note, test note	2					E A A Z
\ I 2	2 3	4 5	6 7	8 9	0 '	i back
tab q	w e	r	t y	u i	o p è	+ ù
lock a	ı s	d f	g h	j k	l ò	à enter
shift	z x	C Y	ь	nm,		shift
ctrl win	alt			alt gr	menu	
				INF	0	OK CANCEL

Fig 61 – Add note to the resource

To save the notes added

Click the **Ok** button (Fig 61) on the command bar.

When there is a note referring to one of the resources entered in the list of "resources used", the \checkmark button (Fig 60 C) appears highlighted in yellow.

• Box [[] (Fig 60 **D**) indicates the quantity of resources to be added or removed.

This quantity is entered using the numeric keyboard in the bottom right corner of the "Resources Used" page (Fig 59 **A**, Fig 62).

7	8	9
4	5	6
1	2	3
C		
+/-	С	\bigtriangledown

Fig 62 – Numeric Keyboard

To specify the quantity of resources

- Click the Edit button (Fig 59 B).
- \succ Click box <u>1</u>.

The cursor appears inside it.

> Click the numbers on the keyboard to enter the quantity.

The button makes it possible to delete the digits in the box.

The button makes it possible to specify whether or not you intend to add or subtract the quantity of resources indicated. Click this button to make the number inside the box positive or negative.

• Box (Fig 60 **E**) indicates the quantity of resources previously programmed and from which you are subtracting (or to which you are adding) a specific number.

When you have programmed the quantity required

> Click **Ok** to record the new resource.

The resource selected appears, together with the relative quantity, in the "materials and resources" area of the "OranJ Home" page (Fig 63).



The information contained in the "materials and resources" area depends on the configuration chosen. Besides to the name and quantity, it is possible, for example, to show the date and time of addition or the serial number of the resource added.

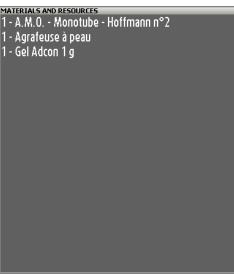


Fig 63 – Resource Added

2.12.1. Editing the "Resources used" screen

To display the list of resources added in detail, or to edit this list

> Click the "materials and resources" area (Fig 63).

The page shown in Fig 59 ("Resources Used") opens.

The names of resources entered previously are flanked by the Square (Fig 64). If there are notes, the square is yellow (Fig 64).

RESOURCES USED	
Agrafeuse à peau Agrafeuse à peau	0
Gel Adcon 1 g Gel Adcon 1 g	0
A.M.O Monotube - Hoffmann n°2 A.M.O Monotube - Hoffmann n°2	1

Fig 64

The square can be clicked. Click it to display the details of every editing (time of editing, notes added, name of the user who edited the resource - Fig 65 A).

RESOURCES USED	
Agrafeuse à peau	0
Gel Adcon 1 g	0
10.11 - ADM	1
7.53 - ADM Test Note	-1
A.M.O Monotube - Hoffmann n°2 A.M.O Monotube - Hoffmann n°2	1
	1. Maria 1.

Fig 65 – Display Notes

It is possible to rapidly remove a resource using a specific button. To rapidly remove a resource

- Access the "Resources Used" screen (Fig 59)
- Click the Edit button (Fig 59 B)
- Click the button placed near the resource you want to remove.

The corresponding line will change as in Fig 66.

- Click the button (Fig 66 A).
- Click **Ok**.

The resource will disappear from the "Materials and Resources" area, the corresponding line will still be present on the resources screen, but the quantity will be changed.

Agrafeuse à peau Agrafeuse à peau	Trolley	0
Gel Adcon 1 g	Trolley	0
A.M.O Monotube - Hoffmann n°2	Trolley	1
🔀 🔀 10.11 - ADM		1

Fig 66

To change the quantity of an added resource,



The following procedure depends on the configuration in use. Some configurations require the identification of every resource by serial number. In these cases, to modify the quantity of a specific resource it is necessary to repeat the procedure described in paragraph 2.11. Contact your system administrator to know the details of the configuration in use.

> Click the "Materials and Resources" area (Fig 63).

RES	OURCES USED		B				
Agrafeuse à peau Agrafeuse à peau	Т	rolley		0			
Gel Adcon 1 g		rolley		0			
A.M.O Monotube - Hoffmann n°2 A.M.O Monotube - Hoffmann n°2	2 T	rolley		1			
					7	8	9
					/	ð	9
					4	5	6
				C	1	2	3
						_	
					C		•
					+/-	С	
ADD NEW EDI	T USED	PLANNED			OK		CANCEL
Fig	g 67 – Chai	nge Quan	tity				

The page shown in Fig 67 opens. The **Edit** button is enabled.

Click the **Edit** button on the command bar (Fig 67 **A**).

Boxes which make it possible to program the quantity appear alongside every resource (Fig 67 **B**).

- > Click the box corresponding to the resource you want to edit.
- Use the numeric keyboard (Fig 67 C) to enter the quantity of resources to be added to or deducted from the number previously programmed.
- Use the ______ button of the numeric keyboard to specify weather the inserted number is positive or negative.
- Click the **Ok** button.

The new quantity will be calculated by the system and shown in the "materials and resources" area of the "OranJ Home" page (Fig 63).

2.12.2. How to move a specified resource set to another operation

It is possible to move the whole set of resources specified for an operation and directly associate it to another operation.

To do that

Click the "Materials and Resources" area (Fig 68 A).

Entrée au	Bloc	PATIENT						_	_	ROOM	
09.0		LAPAROTOMIE EXI	(66y) PLORATRICE: Ia	iparo explo +,	/- réserction	intestin g + éc	hographie du	foie		H05 1	
Entrée en l		per-opératoire (appareil CHGV) +/- PBF							RESI	UAL TIME	
09.4		per operatorie (a		,					COMPLE	TED IN 03.	29
Remise au ch		NOTE				STAFF					
10.1		Résection intestin	ale. Sonde ur	inaire		1er OP:					
Incisio						Zeme ASS OP:					
10.3						MDALG RESP: 1				7	—
Fin d'intervo						MDALG ENS A	NT				\vee
13.0	7	DRUGS, EVENTS AND NO	DTES			MATERIALS AND RE	SOURCES		_		
		Entrée au Bloc				8 - INSTRUMEN	Т				
Sortie de la	Salle	Entrée en Salle									
13.1	5					1 - Laparotomi					
		Remise au chirurg	ien			1 - Nettoyeur (d'électrode de	bistour	1		
Entrée salle d	e réveil	Incision				1 - Ultrasons - 1	Sonde en T n°	2			
13.2	1	Fin d'intervention				1 - Suture-Boo	te jaunoe				
Sortie du		Sortie de la Salle				1 - Aspiration r					
15.3	9	Entrée salle de ré	veil			1 - Resection n	°6				
		Sortie du Bloc				1 - Champ d'iso	lation à annea	u Vi-Dra	ape 23	rm	
						2 - Lac vasculai			-pe 25		
						1 - Aiguille à bi	opsie Tru-Cut				
					L						
NOTE	ANE STHE	SIE COMP. PEROP								NEW RE	S.
				5 1	60						

Fig 68

The "Resources Used" screen will open (Fig 69).

RESOURCES USED		
INSTRUMENT (X08012901532 - Instruments séparés		
Laparotomie n°13 (x08012801592 - Laparotomie n°13	1	
Nettoyeur d'électrode de bistouri 7134110 - Nettoyeur d'électrode de bistouri	1	
Ultrasons - Sonde en T n°2 (X08011601482 - Ultrasons - Sonde en T n°2	1	
INSTRUMENT (X08012801581 - Instruments séparés	1	
Suture-Boots jaunes	1	
Aspiration moyenne	1	
INSTRUMENT ÇX08012600018 - Instruments séparés	1	
Resection n°6 (X08012100198 - Resection n°6	1	
INSTRUMENT (X08010302053 - Instruments séparés	1	
INSTRUMENT (X08012300506 - Instruments séparés	1	
Champ d'isolation à anneau Vi-Drape 23 cm 0707017 - Champ d'Isolation à anneau Vi-Drape 23 cm	1	
INSTRUMENT (X08012901601 - Instruments séparés	1	
INSTRUMENT (X08012901600 - Instruments séparés	1	
Lac vasculaire Super bleu maxi 4211401 - Lac vasculaire Super bleu maxi		
INSTRUMENT (X08012901530 - Instruments séparés		
Aiguille à biopsie Tru-Cut D07030469 - Aiguille à biopsie Tru-Cut	1	
ADD NEW EDIT USED PLANNED		CLOZE

> Click the **Menu** button on the upper left corner of the "Control Bar" (Fig 70 A).



The following menu is displayed (Fig 71 A).

(

	MAIN	MENU	×							
A	閟	CLINICAL CONFIGURATION	SYSTEM CONFIGURATION							
	X	SYSTEM ADMINISTRATION								
		PATIENT REPORTS	SYSTEM REPORTS							
	ĭ	STATISTICS	CHANGE PASSWORD							
	(QUIT	<mark>ភ្នំ</mark> ABOUT							
	× CLOSE									
		Fig	g 71							

Click the **Clinical Configuration** button (Fig 71 **A**).

Another menu is displayed.

- > Click the **Resource Export** button on this menu. User confirmation is required.
- Click Yes to confirm. The "Operation list" screen opens. The selection of the destination operation is now required (Fig 72 A).

	SELECT THE DESTINATION OPERATION									
AB	PLANNED		READY		IN PROGRESS		COMPLETED			
C	13 FACETTECTOMIE CERVICAL BH05 1200	E 11 RESECTIO	N WEDGE METASTAS	-13 ELECT BH05 18.05	ROCOAGULATION	LESION CC 11 BH05 15.00	ABLATION BROCHE CLAVICI	ule sa		
DE	8 NEPHRECTOMIE (DROITE)	(55.51) 4 ABLATIO	N BROCHE HUMERUS		MBENDARTERECT		ABLATION BROCHE CAGE T	HORAC		
F	6 BANDING ARTERE PULMO		R EXTERNE FEMUR (G		ADHERENCES INTR					
G	11 GASTRECTOMIE TOTALE (4		×	13.00						
HI	14.00									
J	_									
KL										
М										
N										
OP										
Q										
RS	-									
I	_									
U	-									
VW										
X YZ										
ALL	-									
ALL										
BH	105 OTHER N	ONE RESERVES		TODAY	^		CLOSE			
			Fig	72						

> Click the operation box corresponding to the destination operation.

The set of resources specified for the original operation is this way automatically associated to the destination operation.

3. Operation and patient management

The OranJ system makes it possible to manage the operation and patient data. This chapter describes the related screens and procedures.

Specifically, within the OranJ context, it is possible to

- 1) Schedule a new operation for a patient (paragraph 3.1.2);
- 2) Display and possibly edit the data relating to an operation (paragraph 3.1.3);
- 3) Display and possibly edit the patient's personal data (paragraph 3.1.1).



When OranJ is used together with the Smart Scheduler system the scheduling procedure is usually performed through Smart Scheduler. The actual workflow depends on the specific hospital procedures in use.

To access these functionalities

Click the "Patient" area on the "OranJ Home" screen (Fig 73 A).

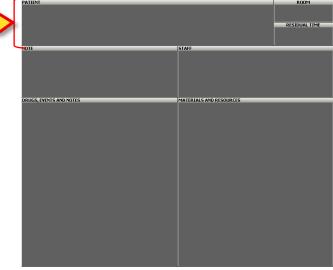


Fig 73 - OranJ Home

The "Patient and Operation Details" screen opens (Fig 74).

		<u>A</u>			
	PATIENT	OPERATION	OTHER OPERATIONS		
			GIVEN NAME		INITIALS
	SMITH PATIENT CODE		JOHN sex	BIRTHDATE	AGE
	20092616				28_YearChar
	NOTES				
	WEIGHT HEIGHT	174			
		er prosthesis revision (90 K Room A - 10/04/2018 1			
EDIT			NEW OPERATION	CANCEL OPERATION	CLOSE

Fig 74 - Patient and operation details

This screen includes three "tabs" (Fig 74 **A**). Each "tab" makes it possible to access a specific subset of information and functionalities.

The "Patient" tab contains the selected patient data (see paragraph 3.1.1).

The "Operation" tab contains the selected operation data (paragraph 3.1.2).

The "Other operations" tab contains the data regarding the possible other operation of the selected patient (paragraph 3.1.3).

3.1.1. Patient

The "Patient" screen (Fig 75) contains the patient's main data.

To access this screen,

Click the "Patient" tab (Fig 75 A).

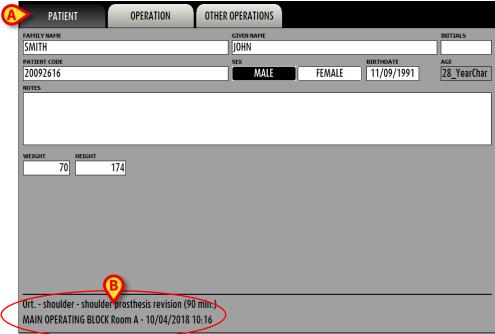


Fig 75 - Patient data

Information that can be here specified is:

- Family name
- Given name
- Initials
- Patient code
- Sex
- Birthdate
- Age
- Notes
- Weight
- Height

If there's an operation planned for the selected patient the main operation data (type of operation, planned duration, planned block, room and time) appear at the bottom-left corner of the screen (Fig 75 **B**).

To specify new data or to modify the existing ones

Click the **Edit** button on the command bar (Fig 76).

		Eig 76		
EDIT		NEW OPERATION	CANCEL OPERATION	CLOSE

The screen will turn to "Edit mode". It will be now possible to modify the patient data. The **Cancel** and **Update** buttons appear on the command bar (Fig 77).



After editing, click the **Update** button to save the changes made.

3.1.2. Operation

The "Operation" screen makes it possible to display all the data related to the main operation. It also displays the list of the possible related operations.

To access this screen

Click the "Operation" tab (Fig 78 A).

PATIENT A OPERATION OTHER OPERAT	IONS
SMITH JOHN (28_YearChar)	
* OPERATION Ort shoulder - shoulder prosthesis revision DESCRIPTION	RESERVATION CODE
SECONDARY OPERATIONS	\bigtriangleup
REASON FOR OPERATION	
Senza menzione di ascesso;	ELECTIVE URGENCY EMERGENCY
Date Time Pre_surgical_time # surgical_time 10/04/2018 10:16 30 90	A inside 30 dd
PLANNED BLOCK PLANNED ROOM ROOM ROOM	ACTUAL BLOCK ACTUAL ROOM
OU ORTHOPAEDICS PROTESICS	OU ORTHOPAEDICS PROTESICS
PICU PICU ANESTHESIA NO	SPECIAL REQUESTS
STATE READY	

Fig 78 - Operation data

The information required is signaled by the **X** symbol. The other information is optional, i.e. it is not possible to schedule an operation without specifying the operation name and the planned duration.

The information that can be specified on this page is

- Name of the operation
- Reservation code
- A brief description of the operation
- A list of the possible related operations

- The reason for operating
- The urgency level
- Planned date
- Planned time
- Planned pre-surgical time
- Planned surgical time
- Planned post surgical time
- Planned block
- Planned room
- Actual block
- Actual room
- Hospital unit requesting the operation
- Hospital unit of hospitalization
- Possible necessity of blood
- PICU (Pediatric Intensive Care Unit)
- Possible necessity of anesthesia
- Special requests
- Reason for cancellation (if the operation is canceled)
- State The "State" box specifies whether the operation is scheduled - <u>SCHEDULED</u>, ready - <u>READY</u>, in progress - <u>IN PROGRESS</u> or completed <u>COMPLETED IN 06.09</u>.

To specify new data or to modify the existing ones

Click the Edit button on the command bar (Fig 79).

EDIT				NEW OPERATION	CANCEL OPERATION	CLOSE	
Fig 79							

The screen will turn to "Edit mode". It will be now possible to modify the patient data. The **Cancel** and **Update** buttons appear on the command bar (Fig 80).



After editing, click the **Update** button to save the changes made.

When editing the screen, some fields can be filled through specific pre-defined menus. These menus can be opened by the 💌 button.

For example, the button alongside the "operation" field opens a list of possible operations from which to choose.

To select one of the items on the list click on the item's name. The clicked item will be

displayed on screen in the appropriate field. This procedure is possible every time the button appears.

3.1.3. Other operations

The "Other operations" screen provides a list of all the past, present and future operations of a patient.

To access this page

(

Click the "Other operations" tab (Fig 81 A).

The following screen opens.

		(A)	
PATIENT	OPERATION	OTHER OPERATIONS	
SMITH JOHN (28_Year	Char)		
	der prosthesis revision (CK Room A - 10/04/201		
30/07/2020 MOBE	AMB - Pharynge	eal biopsy	

Fig 81 - Other operations

The name of the patient and the selected operation main data are in the top-left corner of the screen (Fig 81 **B**).

The different operations are displayed in chronological order, most recent on top (Fig 81 C).

30/07/2020 MOBE AMB - Pharyngeal biopsy

Fig 82

Each line corresponds to an operation (Fig 82).

The information provided for each operation is:

- Date (05/11/2007 in the example)
- Block (BH05)
- Room (2)
- Type of operation (Fermeture de...).

Additional information is provided by the color of the cell containing the date of the operation. The color of this cell depends on the state of the operation, and follows the color coding used throughout the whole OranJ system. Thus the cell is dark gray if the operation is "completed", it is cyan when the operation is "in progress", green when it is "ready" and light gray when it is "scheduled".



Each line can be clicked to display a window containing a summary of all the operation data.

Fig 83

The **Select** button (Fig 83 **A**) on the information window can be clicked to access the "OranJ Home" page for the specific operation. See paragraph 2.1 for a description of the "OranJ Home" screen,



The info window shown in Fig 83 can be customized by the system administrator, i.e. the type and amount of information contained in the window is decided by the user. Therefore, it varies with every single configuration.

3.1.4. Other information

Some configurations use an additional tab to display more relevant data. The "Other informations" page contains a set of additional information regarding a selected patient/operation that are considered useful (Fig 84).

B AMO TIBIA (GAUCHE) (78. 67) (90 min.) BHOS 7 - 08/10/2020 8.10		PATIENT	OPERATION	OTHER OPERATIO	
	B				
	C				

Fig 84

To access this screen

Click the "Other informations" tab indicated in Fig 84 A.

The patient and operation main data are displayed on the top left corner of the page (Fig 84 **B**).

The additional information is displayed in the area indicated in Fig 84 C.

The nature and kind of information displayed depends on a specific query created by the system administrators. The information displayed therefore varies with the specific query. Please refer to the system administrator to know exactly what kind of information is displayed on this page on the specific system you are using.

3.2. How to schedule a new operation

The "OranJ" system makes it possible to schedule a new operation for a selected patient.

To schedule a new operation

> Select the patient for whom the operation will be scheduled.

The "OranJ Home" screen relating to the selected patient will open (Fig 85 - See paragraph 2.1 for a detailed description of this screen).

	PATIENT							ROOM
A	PATIENT	-						RESIDUAL TIME
								RESIDUAL TIME
	NOTE				STAFF			
	DRUGS, EVEN	IS AND NOTES			MATER	IALS AND RESOURCE	5	
			1					
FARMACI	INFUSIONI	SANGUE	ANESTESIA	PROCEDURE	COMPLICANZE	CHIRURGIA	NOTE	NEW RES.

Fig 85 – OranJ Home

Click the "patient" area (Fig 85 A).

The "Patient and Operation detail" screen opens (Fig 86).

PATIENT	OPERATION	OTHER OPERATIONS		
FAMILY NAME		GIVEN NAME		INITIALS
SMITH		JOHN		
PATIENT CODE		SEX		AGE
20092616		MALE	FEMALE 11/09/1991	28_YearChar
NOTES				
WEIGHT HEIGHT				
70	174			
Ort shoulder - shoulde	er prosthesis revision (90) min.)		
	(Room A - 10/04/2018 1			
		A		
		NEW OPERATION	CANCEL OPERATION	CLOSE
		Fig 86		

The "Operation" tab will be automatically selected, that will be in "edit" mode. It will be here possible to specify the new operation data (Fig 87).

PATIENT * OPERATIONOTHER O	PERATIONS		
SMITH JOHN (28_YearChar)			
* OPERATION		RESERVATION CODE	
DESCRIPTION			
SECONDARY OPERATIONS			
			\square
REASON FOR OPERATION	EME	RGENCY LEVEL	
\frown		ELECTIVE URGENCY	EMERGENCY
DATE TIME PRE SURGICAL_TIME # SURGICAL_TI 30/07/2020 30 90	POST SURGICAL_TI PRIC	IRITY	
PLANNED BLOCK PLANNED ROOM		ACTUAL ROOM	
HOSPITAL UNIT REQUESTING	HOSPITAL UNIT HOSPITA	LIZATION	
BLOOD PICU ANESTHESIA	SPECIAL REQUESTS		T
YES NO YES NO YES NO			
STATE PLANNED			

Fig 87 – New operation data specification

 Specify the operation details (operation name and planned duration - indicated in Fig 87 - are required)

Where the volume button is present, a list of options from which to choose can be opened (by clicking this button).

For example, the button alongside the "operation" field (Fig 87 **A**) opens a list of possible operations from which to choose (Fig 88).

- Use the arrows on the right of the list (Fig 88 A) to scroll the list, or type the initial letter of the wanted operation to jump to the list of operations beginning with that letter.
- > Click the name of the wanted operation to select it.

The operation name is displayed in the "Operation" field.



The pre surgical, surgical and post surgical time can be associated to the selected operation by configuration. When this is the case these values are automatically inserted when the operation is selected.

The same procedure can be used wherever the button is present.

DATIENT					
PATIENT	* OPERATION	OTHER OPERATIONS			
SMITH JOHN (28_YearChar)					
* OPERATION			_	RESERVATION COD	£
column- x - lif			 $-\Lambda$		
Abdominal-perineal amputa	tion		_		
abdominoplasty			_		
Abscess anal drainage			_		\square
AC foreign body removal			 _		
AC washing adenoidectomy			_		$\overline{\nabla}$
Adenotonsillectomy children			-		V
Adult tonsillectomy			_	URGENCY	EMERGENCY
Altemeier			-	_^	
Altemeier with transtar (PSF)		-		
AMB - Control of epistaxis b			-	ACTUAL ROOM	
AMB - External ear biopsies	concentration		-		
AMB - Incision with skin and	subcutaneous tissu	ie	_		-
AMB - Local surgical excision	or demolition of cu	Itaneous tissue lesion			
AMB - nose biopsies			\mathbb{V}		
AMB - Pharyngeal biopsy			-//		
T LAININED					
		NEW OPERATION	CANCE	L OPERATION	CANCEL
		TEN OF ERATION	STATUL.	E OF ERGATION	Chinter

Fig 88

After entering all the data

> Click the **Update** button to save the data entered (Fig 88 **B**, Fig 89).

This schedules the operation. The operation will be present in the other pages and modules of the OranJ system as well.

Otherwise, if you wish to cancel the data entered

Click the Cancel button (Fig 88 B, Fig 89).



3.2.1. How to cancel a scheduled operation

To cancel a scheduled operation

> Select the operation that must be canceled.

The "OranJ Home" screen relating to the selected operation opens (Fig 90).

Check In	SMITH, JOH	N (28_YearChar) eration: Appendi	costomy Malone					ROOM RESIDUAL TIME
	NOTE				STAF	Ŧ		
	DRUGS, EVENT	S AND NOTES			МАТ	ERIALS AND RESOURCES		
THERAPY	ANESTHESIA	PROCEDURE	COMPLICATIONS	NURSE EVENT	NOTE			NEW RES.

Fig 90 - OranJ Home

Click the "Patient" area (Fig 90 A).

PATIENT	OPERATION	OTHER OPERATIONS		
FAMILY NAME		GIVEN NAME		INITIALS
120301723-0123		1250		
PATIENT CODE		SEX	BIRTH DATE	AGE
1,29044		MALE	FEMALE	69 - C
NOTES				
WEIGHT HEIGHT	-			
Ernioplastica inguinale bilat	terale (D.S.) (25 min.)			
Blocco Operatorio Sala 2 - 2				
	1/04/2010 10.10			
		NEW OPERATION	CANCEL OPERATION	(
			CARGE OF ENAMOIN	
		Fig 91		

The "Patient and Operation details" screen opens (Fig 91).

> click the **CANCEL OPERATION** button on the command bar (Fig 91 B)

User confirmation is required (Fig 92).

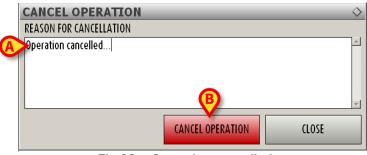


Fig 92 – Operation cancellation

The cancellation reason can be here specified.

- Specify the cancellation reason (Fig 92 A)
- Click the red Cancel Operation button (Fig 92 B)

Once the reason has been entered, it is displayed on the cancelled operation record in the "Reason for cancellation" field.

The operation state is now "Cancelled" (Fig 93 A).

PATIENT OPERATION OT	HER OPERATIONS		
PLACE NEED BEEF BEEF (17)			
* OPERATION Ernioplastica inguinale bilaterale (D.S.)		RESERVATION CODE	
DESCRIPTION			
SECONDARY OPERATIONS			
			\square
REASON FOR OPERATION ERNIA INGUINALE BILATERALE	F	ELECTIVE URGENZA	EMERGENZA
DATE TIME PRE TIME 21/04/2010 10.10 15 21	ICAL TIME POST TIME	PRIORITY (
PLANNED BLOCK PLANNED ROOM Blocco Operatorio Sala 2	ACTUAL BLOCK	ACTUAL ROOM	
HOSPITAL UNIT REQUESTING CHIRURGIA DAY SURGERY	HOSPITAL UNIT HOSP CHIRURGIA DAY	ITALIZATION	
YES NO YES NO YES	SPECIAL REQUESTS		
A CANCELLED REASON FOR CANCELLATION			
EDIT	NEW OPERATION	CANCEL OPERATION	CLOSE

Fig 93 - Cancelled operation

Once cancelled, the operation disappears from all the pages of the OranJ system modules.

4. The OranJ "Plan" module

The "OranJ Plan" module makes it possible to monitor the activities in one or more operating block(s). To select the "OranJ Plan" module

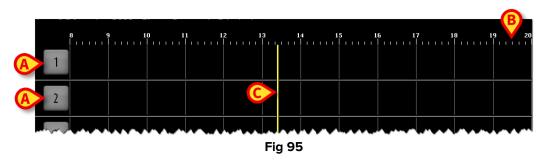
Click the corresponding icon - Click the corresponding icon - On the Digistat lateral bar.

The "OranJ Plan" module screen opens. Fig 94 shows an example. The screen shows the state and the trends of the actual operations on a block in the current day.

	NOT ASSIGNED
	11 12 13 14 15 16 17 18 19 REDUCTION FERMEE ET OSTEO
2 MENISCECTON P	LISTIE DU LIGAM REDUCTION EERME
3	ARTHROPLASTIE TOTALE GENOU (DRI
4	
5 FISTULE ARTERI	
6	
7	
8 MAMMOPLASTIE BILATERAL	MAMMOPLASTIE BILATERALI
9	PLASTIE OU REMPLACEMENT VALVE AORT ABLATION PONTAGE ILIO-FEMORI
10 LOBECTOMIE SUPER	
11	CRANIOTOMIE
12	
13	
1 4	PROCTECTOMIE PARTIELLE RESECTION RECTUM (48.6
1 5	
16	
17	
	ECTOMIE LEFORT I (76.66)
19	
21	
23	POSE PORT-A-
EXT	
EDIT BH05	12:00 TODAY SLOC
	Fig 94 - Operating day (example)

4.1. Screen description

Every numbered line represents an operating room. The box at the beginning of the line states the number of the room. In Fig 95 **A** rooms 1 e 2 are indicated.



If enabled by configuration, the color of that box provides information on the state of the operation that is more relevant at present time.

There are four possible configuration options regarding the room number box color:

- room numbers are always gray;
- only operation states are highlighted;
- only late and close to end operations are highlighted;
- both operation states and late/close to end operations are highlighted .

In this last case the room number color changes according to the following priorities:

- if an operation is late the box turns red;
- if an operation is close to the end (30 minutes or less in the configuration here described) the box turns yellow;
- if an operation is in progress the box turns cyan;
- if an operation is ready (and no operation is in one of the above mentioned states) the box turns green;
- if an operation is planned (and no operation is in one of the above mentioned states) the box turns light gray;
- if there are no operations or all the operations in the room are completed the box turns dark gray.

Fig 94 and Fig 96 show some examples.



The hours are indicated on top and bottom of the screen (Fig 95 B).

The yellow bar shown in Fig 95 **C** indicates the current time. In Fig 95 it is about 13:20. The bar runs as time goes by.

Possible yellow letters placed near the room box (Fig 97) indicate the devices that are in the room. The relation between a letter and a device is set by configuration.



Fig 97

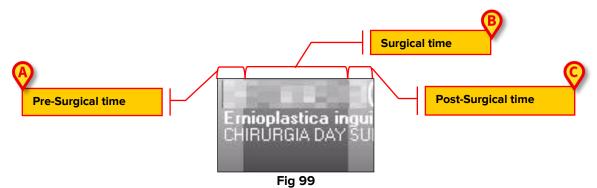
11 12 13 14 15 16 UPPP con o senza ORL E CH.CERVICO-1 2 Fig 98

The rectangles displayed on screen represent the various operations (Fig 98).

The rectangles on the right of the yellow time-bar represent scheduled operations (they are placed on a future time); their values (duration, room, time etc...) are planned values. The rectangles on the left of the yellow time-bar represent completed operations (they are placed on a past time); their values are actual values. The rectangles intersecting the yellow bar represent operations in progress. In Fig 94 some examples of all kinds are visible.

The position of every rectangle indicates the scheduled time and the room where the operation will be performed (or was performed if completed). In Fig 98, for example, an operation is planned at 14:30 in room 1 and an operation is planned at 14:00 in room 2.

The size of every rectangle is proportional to the scheduled duration of the corresponding operation (actual duration if the operation is completed). For example: the planned duration of the operation indicated in Fig 98 **A** is 90 minutes (from 14:30 to 15:00); the planned duration of the operation indicated in Fig 98 **B** is 90 minutes as well (from 14:00 to 15:30). The duration represented this way includes pre-surgical, surgical and post-surgical times.



These times are indicated by different shades of color (Fig 99).

The lighter part on the left (Fig 99 **A**) represents the pre-surgical time; the darker part in the middle (Fig 99 **B**) represents the surgical time; the lighter part on the right represents the post-surgical time (Fig 99 **C**).

Each rectangle displays certain operation information, depending on the configuration in use. In the configuration here described the patient name, the operation and the hospital unit requesting the operation are displayed in the rectangle (see Fig 100 for an instance).

The rectangle color indicates the operation state.

Four different operation states are possible in the OranJ system.

• Planned – the operation has been scheduled; at least the operation day was specified. Light gray indicates the "Planned" state (Fig 100).



Fig 100 - "Planned" operation

 Ready – the patient has undergone block check-in. Green color indicates the "Ready" state (Fig 101).



• In Progress – the patient has entered the operating room. Cyan indicates the "In progress" state (Fig 102).



Fig 102 - "In progress" operation

• Completed – the operation has been completed; the patient is out of the operating room. Dark gray indicates the "Completed" state (Fig 103).



Fig 103 - "Completed" operation

When an operation changes state the color of the corresponding rectangle changes.

The changes in the operation state are linked to the recording of certain markers on the "OranJ Home" screen (see paragraph 2.4 for a description of the "Markers").

- The "Block In" marker recording implies passage from "Planned" state to "Ready" state.
- The "Room In" marker recording implies passage from "Ready" state to "In progress" state.
- The "Cut" marker recording implies the end of the pre-surgical time and the beginning of the surgical time. When this marker is recorded the operation rectangle looks like the one shown in Fig 102; here the different shading differentiate pre surgical and surgical times.
- The "Suture" marker implies the end of surgical time and the beginning of post surgical time. When this marker is recorded the operation rectangle looks like the one shown in Fig 104, the different shading here differentiate pre surgical, surgical and post surgical times.

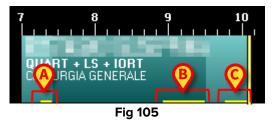


• The "Room out" marker implies passage from "In progress" state to "Completed" state.



The kind of information displayed on the operation-rectangles depends on the configuration in use and can be changed and/or translated. Therefore they can appear different from those shown in the figures.

If enabled by configuration, the possible operation delay is visible on a yellow bar placed at the bottom of the operation-rectangle (Fig 105).



A configuration parameter makes it possible to display separately the possible delays in pre surgical, surgical and post surgical durations. That is the case shown in Fig 105. In the figure here displayed the three yellow bars indicate

- 1) a 12 minutes delay in the pre surgical planned duration (Fig 105 A);
- 2) a 40 minutes delay in the surgical planned duration (Fig 105 B);
- 3) a 21 minutes delay in the post surgical planned duration (Fig 105 C).

The operation shown in the figure is still in progress. Total delay is 73 minutes so far. This value is indicated in the "residual time" area on the "OranJ Home" screen (see paragraph 2.9).

The operations scheduled after the delayed ones are, if necessary, automatically postponed.

The operations indicated as "Emergencies" on the "Patient and operation detail" screen (Fig 78 - or, if installed, on the Digistat "Smart Scheduler" system, or scheduled using a possible configured emergency procedure) are characterized by a red stripe on the left (Fig 106). The small box indicated in Fig 106 **A** specifies the emergency level. In the configuration here described there are three possible emergency levels.



Every operation box can be clicked. Click one of the boxes to open a window (Fig 107) containing the main data of the operation.

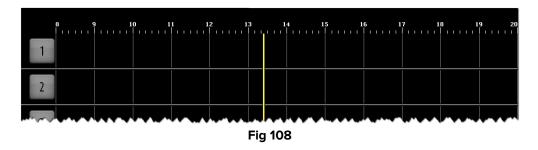


Fig 107 – Operation details

Click the **Select** button in the window (Fig 107 **A**) to access the "OranJ Form" page relating to the operation clicked (Fig 11).

4.1.1. Planned resources availability and operations schedule

The yellow "now bar" (Fig 108) pushes to the right the operations that, for any reason, don't start.



If there are special resources scheduled for the operations, the operation rectangles can be pushed to the right not only by the "now bar" but also according to the resources availability.



The scheduling of available resources can be performed on the "Resources" module belonging to the Digistat Smart Scheduler system. See the "Digistat Smart Scheduler User Manual"), paragraph "Resource", for instructions on this topic.

If two operations share the same resource and the first operation is delayed, then the second operation (temporarily lacking the scheduled resource) can either be pushed to the right or not on the OranJ Plan depending on the resource configuration.

Each resource is defined as "father" (for example: "Laser", as general category) with a certain number of "children" (that is, the actual lasers existing, usually named "Laser 1", "Laser 2" and so on).

A property of the father resource defines the behavior of the children resources in the case that, due to delays in the intervention duration, a conflict occurs (that is: the same resource is scheduled for two overlapping interventions).

If the property is set to 1 (push mode), all the conflicting interventions scheduled in other operating rooms belonging to the same block are pushed forward and have their scheduled start time delayed.

Conflicting interventions scheduled in different blocks lose the specific (child) resource association. The association with the generic (father) resource remains.

If the property is set to 0, all the conflicting interventions (in any block, including the same block) lose the specific (child) resource association and keep the association with the generic (father) resource.



If two resources, one push and one non-push, are scheduled for the same intervention and they both conflict, the push mode is adopted for both.

If the the intervention duration is prolonged by a user request (that is, a certain scheduled duration is added on the "OranJ home" screen, see section 2.9), the "push" property is not considered. In this case a message box is displayed, asking if the conflicting intervention shall be pushed or not. The resources behavior changes according to the user choice (either push or non-push).



The operations sharing the resource can be in different rooms and/or different blocks. Therefore, on the user interface, an operation can be moved to the right with no immediately apparent reason.

4.2. The "OranJ Plan" command bar

The command bar on the bottom of the OranJ Plan screen is formed of buttons making it possible to perform different procedures. These buttons are listed and shortly described in this paragraph. The procedures are described in detail in the indicated paragraphs.

EDIT	BH05		12:00		TODAY	•		BLOC	
	Fig 109								

r	
EDIT	This button makes it possible to edit the operation plan. The button
	must be selected before any editing procedure. See paragraph 4.2.1.
BH05	This button makes it possible to display the plan of a different block.
20110	This button is only active if working on a "General Central" station.
	See paragraph 4.2.2.
12:00	This button makes it possible to display a different time span. See
12:00	paragraph 4.2.3.
	This button makes it possible to display the plan of a different day.
TODAY	See paragraph 4.2.4.
	Scroll buttons - They make it possible to display a plan either
	preceding or following the one currently displayed. If, for example, a
	time span going from 12:00 to 24:00 is displayed, one click on the
	right arrow displays a time span going from 15:00 to 3:00 (next day).
	Similarly, one click on the left arrow displays a time span going from
	9:00 to 21:00.
	This button is a filter for the operations in the "not assigned" area. If
	selected, only the operations of the currently selected block are
BLOC	displayed in this area, if not selected all the not assigned operations
	of all the blocks configured in the system are displayed. See
	paragraph 4.3.

4.2.1. How to edit the operation plan

The operation plan can be edited directly on the "OranJ Plan" module main screen. Before any editing it is necessary to click the **Edit** button (Fig 110).

EDIT	BH05	12:00		DAY	•		BLOC		
	Fig 110								

When the button is selected the screen is in "edit" mode. The selected button color changes to dark gray.

Once the editing is performed the button automatically deselects. It is necessary to click it again to edit the screen again. To edit the plan

click the Edit button,

The "drag and drop" functionalities are this way enabled.

Drag the operation rectangle to the point required on the plan (or in the "not assigned" area).

The rectangle stays where dragged, whereas the button deselects. The changes (operation time and room) are recorded on the other OranJ modules.

The term "drag and drop" indicates the possibility to physically take one of the rectangles corresponding to an operation, drag it to the point required and release it. Remember that the position of a box on the page indicates the room and the time scheduled for the corresponding operation, so moving a box from one position to another means assigning or changing time and/or operating room. If working on a "touch screen" the same operation can be performed using the fingers.

The **Edit** button makes it possible to:

- change the time and/or room scheduled for an operation,
- add one of the operations from the "not assigned" area to the daily schedule,
- remove one of the operations from the daily schedule and add it to the "not assigned" area.

4.2.2. How to change the block displayed

This button is only active if the workstation on which you are working is configured to display more than one surgical block (i.e., if it is a GENERAL CENTRAL STATION).

To display the page relating to another surgical block

Click, on the command bar, the button indicated in Fig 111 (the button displays the name/code of the block currently displayed).



A list of all the blocks configured in the OranJ system opens.

HEL	
HO	
BH07	
BH05	
BH05	

Click one of the names on the list. The corresponding block is this way displayed.

4.2.3. How to change the time range displayed

To change the time range displayed

Click the time button on the command bar (Fig 112 - the button displays the time range currently selected).



A drop-down menu offering three different options (6:00 – 12:00 – 24:00) opens (Fig 113).

24:00	
12:00	
6:00	
12:00	•

Fig 113 – Time interval options

Click the required option.

The screen changes accordingly. Click **6:00**, for instance, to display a 6 hours time range.

4.2.4. How to change the day displayed

The **Today** button (Fig 114) on the command bar makes it possible to change the date displayed.

EDIT	BH05	12:00	TODAY		BLOC	
			Fig 114			

To do that

Click the **Today** button.

A calendar window (current month) opens (Fig 115).

Ø										
	JULY 2020									
Mon	Tue	Tue Wed Thu Fri Sat Sun								
		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						
B S										
_	TODAY CLOSE									
	F	ig 115	5 – Ca	lenda	r					

The current day is highlighted yellow. Inside every day the number of operations completed during that day is shown (dark gray).

Use the arrows (Fig 115 **A**) to change month. If it is April, for example, click the right arrow to display the calendar for May and the left arrow to display the calendar for March.

After selecting the month

Click the day you wish to display.

The day selected on the calendar turns yellow. The page relating to the selected day is displayed.

If you select a different day from the current one, the **Today** button displays the date of the selected day. To return to the current day

Click the **Today** button on the calendar (Fig 115 **B**).

To close the calendar window

Click the **Close** button on the calendar (Fig 115 **C**).

4.3. The "not assigned" area

The "Not assigned" area on the right of the "OranJ Plan" screen (Fig 116 **A**, Fig 117), contains operations which have not been assigned a block, room or time.

		NOT ASSI	GNED
1			RMEE ET OSTEO!
2	MENISCECTON PL		-trachéale (Pe
3		ARTHROPLASTIE TOTALE GENOU (DRI	CATRICE (86.84
4		CHV CHV	
5	FISTULE ARTERIO		
6			
7			
8	MAMMOPLASTIE BILATERALE	MAMMOPLASTIE BILATERALI	
9		PLASTIE OU REMPLACEMENT VALVE AORT ABLATION PONTAGE ILIO-FEMOR	
10	LOBECTOMIE SUPERI		
11		CRANIOTOMIE	
12			
13		AUTRE EXCISI EXERESE CHOLESTEATOME TECHNI	
<mark>u</mark> 14		PROCTECTOMIE PARTIELLE RESECTION RECTUM (48.6)	
1 5			
16			
17			
18	GREFFE F OST	ECTOMIE LEFORT I (76.66)	
19			
<mark>°</mark> 21			
<mark>c</mark> 23		POSE PORT-A-	
EXT	7 8 9 10		
EDI	T BH05	12:00 TODAY BLOC	
		Fig 116	

This area can be used to add urgent operations to the daily schedule. The criterion observed for these urgent cases is "as soon as a room is free, the operation goes ahead"; the "not assigned" area makes it possible to display the operations waiting to be added to the daily schedule.

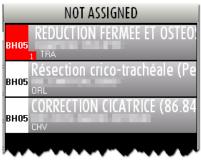
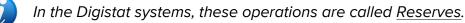


Fig 117 – "Not assigned" area

A scheduled operation is in the "not assigned" column when

- the block is not specified;
- the room is not specified;

- the time is not specified;
- the block and room are not specified;
- the time and room are not specified;
- the time, block and room are not specified.



The "not assigned" area also displays operations which are indicated as "emergencies". These operations, regardless of the time, block and room specification, are marked red and are not only displayed on the day for which they are scheduled, but also on the days to come (so that the emergency is always visible. All the emergencies are grouped together on top of the list.

The small box indicated in Fig 118 **A** specifies the emergency level.

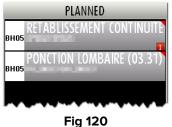


The **Block** button on the command bar (Fig 116 **B**) makes it possible to filter the operations of the "not assigned" group. If selected, only the operations relating to the block currently displayed are displayed. If not selected, all the "not assigned" operations of the surgical area are displayed. When you access the page, the Block button is selected by default. The emergencies, when inserted in the plan, are characterized by a red stripe on the left (Fig 119).



Fig 119 - Emergency

When a day in the past is displayed on the plan, the "not assigned" area contains the list of the operations that were planned for that day but were not performed. Fig 120, for instance, shows the area referred to a day in the past. Note the title "planned" on top of the list instead of "not assigned".



The operation boxes that appear in the not assigned area in the way indicated in Fig 121 **A** are reserves that were planned for a day that is different from the current day.



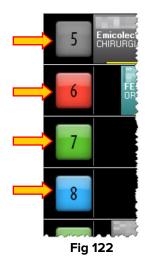
4.3.1. Planning a "Reserve" operation

To add a "Not assigned" operation to the daily plan

- > Click the **Edit** button on the command bar.
- Drag the operation-rectangle and drop it to the position corresponding to the wanted room and time.

4.4. Room Plan

You can display the details of the schedule of every single operating room by clicking the box containing the room number (Fig 122).



4.4.1. Scheduling the single room

Click one of the boxes indicated in Fig 122 to access a page showing information relating to the daily schedule of the single room (Fig 123).

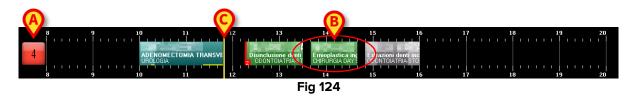
	4		ADENOMECTOMIA UROLOGIA 10 11	A TRANSV	13 Disinclusione denti ODONTOIATRIAST	Ernioplastica inc CHIRURGIA DAY S	strazioni denti inc IDONTOIATRIA STO	17 		
	APERTURA SALA		-			DAILY PROGRA	AM			
(08.00 INIZIO MANUTENZIONE	13.40 13.40		CTONIA TRANSVESCICALE						
	08.10	12.15	45 45 Disinclusi	ione denti inclusi - 0001	ATOIATRIA-STOMATOLOGIA					
	08.20	13.40 13.40	30 -	tica inguinale dw/sx - (H		-				
B	FINE PULIZIE 08.45	14.50	40	i denti inclusi - ODONT						
-	FINE MANUTEZIONE	-				NOT ASSIGNE	ED			
	09.00			ernia ombelicale - (HIRU)						
	CHIUSURA SALA	17.00	40	L Rakoli						
l		17.00		one neoformazione cutar	iea + innesto - CHIRURO	GIA GENERALE				
				tica inguinale dx/sx - (H						
		,		nca nigunare uzvsz - ch	INDINGIA DAI SUNGENI					
				tica Funzionale - ORL E	CH.CERVICO-FACCIALE					
		17.00 17.00	60 60 Radicaliza	cazione melanoma + LS	- CHIRURGIA GENERALE					
	EDIT		NOT ASSIGNED	6 HOURS	12 HOURS	24 HOURS	•		CLOSE	
					422					

Fig 123 – Room Plan

The figure shows the details of room 4.

4.4.2. Room schedule

There is a time line in the upper part of the page, schematically representing the schedule of the operating day (Fig 123 **A**, Fig 124).



The box on the left (Fig 124 **A**) displays the room number. If enabled by configuration, the color of that box provides information on the state of the operation that is more relevant at present time.

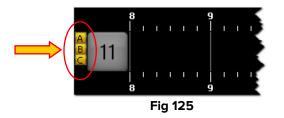
There are four possible configuration options regarding the room number box color:

- room numbers are always gray;
- only operation states are highlighted;
- only late and close to end operations are highlighted;
- both operation states and late/close to end operations are highlighted .

In this last case the room number color changes according to the following priorities

- if an operation is late the box turns red;
- if an operation is close to the end (30 minutes or less in the configuration here described) the box turns yellow;
- if an operation is in progress the box turns cyan;
- if an operation is ready (and no operation is in one of the above mentioned states) the box turns green;
- if an operation is planned (and no operation is in one of the above mentioned states) the box turns light gray;
- if there are no operations or all the operations in the room are completed the box turns dark gray.

Possible letters placed beside the room number (Fig 125) indicate the room devices. The relationship between a letter and a device is defined by configuration.



The numbers along the line represent the hours of the day. The boxes inside the line represent the operations scheduled, in progress or completed in that room. The color of the boxes corresponds to the operation state. The association between color and operation state is explained in paragraph 4.2

The length of every box is proportional to the scheduled duration of the corresponding operation. The longer the box, the longer the scheduled duration of the operation.

The position of every box indicates the scheduled time for the operation. The left side of the box is positioned in line with the start time scheduled for the operation.

For example, the box indicated in Fig 124 **B** corresponds to an operation which should start at 13:40 and should last one hour.

If the data relating to an operation is changed, i.e., if the scheduled time or duration is changed, the system automatically moves the corresponding box on the page and/or changes its dimensions.

See paragraph 3 to know how to change the data of a scheduled operation.

The vertical yellow cursor indicates the current time (Fig 124 C). In the example shown in the figure, the yellow cursor is in line with 11:50. The cursor runs across the page as time goes bv.

If the cursor meets the start time established for an operation (i.e., the left side of a box) and the operation does not start at the established time, the box moves together with the cursor.

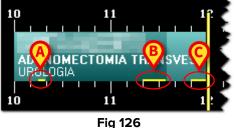
In general:

- completed operations (dark gray) are all on the left of the time cursor,
- scheduled operations (light gray) and those that have only undergone block check-in • (green) are all on the right of the time cursor,
- in progress operations (cyan) are across the time cursor.



Data relating to completed operations (duration, start time, end time etc...) are actual data; data relating to scheduled operations are planned data.

If enabled by configuration, the possible operation delay is visible on a yellow bar placed at the bottom of the operation-rectangle (Fig 126).



A configuration parameter makes it possible to display separately the possible delays in pre surgical, surgical and post surgical durations. That is the case shown in Fig 126. In the figure here displayed the three yellow bars indicate:

- 1) a 5 minutes delay in the pre surgical planned duration (Fig 126 A);
- 2) a 15 minutes delay in the surgical planned duration (Fig 126 B);
- 3) a 10 minutes delay in the post surgical planned duration (Fig 126 C).

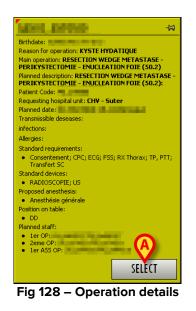
The operation shown in the figure is still in progress. Total delay is 30 minutes so far. This value is indicated in the "residual time" area on the "OranJ Home" screen (see paragraph 2.9).

The operations envisaged after the overrunning operation will be automatically postponed by the system. The operations scheduled after the delayed ones are, if necessary, automatically postponed.

The operations indicated as "Emergencies" are characterized by a red stripe on the left (Fig 127). The small box indicated in Fig 127 **A** specifies the emergency level. In the configuration here described there are three possible emergency levels.



Every operation box can be clicked, whether on the page or the "not assigned" column (see paragraph 4.3). Click one of the boxes to open a window (Fig 128) containing the main data of the operation.



Click the Select button in the window (Fig 128 **A**) to access the "OranJ Form" page corresponding to the operation clicked (Fig 11).

4.4.3. The command bar



On the command bar, the three buttons **6 Hours**, **12 Hours**, **24 Hours** (Fig 129 **A**) make it possible to change the time range displayed. By clicking the **6 Hours** button, for example, the time range of 6 hours is displayed, while the **12 Hours** button displays the time range of 12 hours.

The arrow buttons (Fig 129 **B**) make it possible to move backwards and forwards in the time range displayed. If, for example, you are displaying the time range going from 12:00 to 24:00, click once the right arrow to display the time range going from 15:00 to 3:00 of the following day. Likewise, click once the left arrow to display the time range going from 9:00 to 21:00.

The **Edit** button (Fig 129 **C**) makes it possible to edit the page contents. See paragraph 4.4.6 for a description of this function.

The **Not Assigned** button (Fig 129 **D**) makes it possible to select a scheduled operation and bring it to the "Not assigned" area. The related procedure is described in paragraph 4.4.6.

4.4.4. The "daily program" area

The "daily program" area (Fig 130 A) displays in textual form information on the schedule of the selected operating room.

8 9		10 11 ADENOMECTOMI UROLOGIA		13 Disinclusione denti DDDNTOIATRIAST	Ernioplastica inc CHIRURGIA DAY \$	the second se	
APERTURA SALA					DAILY PROGR	AM	
08.00	13.40		6.000 C	(/	4)		
INIZIO MANUTENZIONE	13.40		CTONIA TRANSVESCICALE	- UROLOGIA			
08.10	12.15	45 45 Disjoclus		NTOIATRIA-STOMATOLOGIA			
INIZIO PULIZIE	13.40						
08.20	13.40		tica inguinale do/sx - (H				
FINE PULIZIE 08.45	14.50		1001000				
	14.50	1 40 Estrazion	i denti inclusi – ODONT	OIATRIA-STOMATOLOGIA		<u>د</u> م	
FINE MANUTEZIONE 09.00		20			BASSIGN	20	
09.00			ernia ombelicale - CHIRUI		×		
CHIUSURA SALA	17.00	40					
	17.00			nea + innesto - CHIRURG	IA GENERALE		
	,		tica inguinale dx/sx - (H				
	,		nca ingunare uvisk - ch				
			tica Funzionale - ORL E	CH.CERVICO-FACCIALE			
	17.00	60					
	17.00) 60 Radicaliz	cazione melanoma + LS	- CHIRURGIA GENERALE			
F0/7		NOT LOCIONED	(1101105		24.1101105	4	ci o cr
EDIT	_	NOT ASSIGNED	6 HOURS	12 HOURS	24 HOURS		CLOSE
				Fia	130		

Fig 130

Every row corresponds to an operation (Fig 131).



The color of the row indicates the operation state (see paragraph 4.2 for the association between colors and operation state in OranJ).

The left part of every row contains the start time scheduled for the operation (Fig 131 A). The rest of the row shows:

- the planned duration of the operation (Fig 131 B);
- the patient's name (Fig 131 C);
- the type of operation scheduled (Fig 131 D). •

If specified, the hospital unit which requested the operation is also indicated.

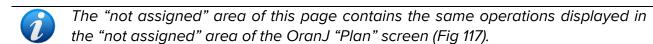
If the left part is highlighted red (Fig 132) it means that the operation is an "Emergency".



Fig 132 – Emergency

4.4.5. The "not assigned" area

The module displays the list of not assigned operations. These are operations for which no start time, room or block have been scheduled (these operations are called "reserves", see paragraph 4.3 for a description of these operations and the related procedures).



Each row of this section shows the scheduled duration for the operation, the name of the patient, the type of operation scheduled and, if specified, the department which requested the operation (Fig 130 B).

All the rows of the "daily program" and "not assigned" areas can be clicked. Click a row to open the window shown in Fig 128, containing the main data of the operation.

4.4.6. How to edit the operations schedule

You can edit the main page of the Room Plan module to change the operations schedule



To make any change it is necessary, first, to click the Edit button (Fig 133 A). When this button is clicked it appears as selected.

To edit the page:

- Click the Edit button.
- Make the change required.

Once the page is edited, the **Edit** button is automatically deselected. To edit the page again it is necessary to click it again.

When the **Edit** button is selected, the "drag and drop" functions are enabled.

The term "drag and drop" indicates the possibility to physically take one of the boxes corresponding to an operation, drag it to the point required on the time line and release it. Remember that the position of a box indicates the time scheduled for the corresponding operation, so moving a box from one position to another on the time line means changing the time of the corresponding operation. The changes will be automatically displayed on the other OranJ modules.



If you are working on a touch screen and there is no mouse, you can perform the same procedure using your fingers.

Likewise, you can add an operation from the "not assigned" list to the daily schedule by dragging the corresponding box.

You can also remove an operation from the daily schedule and add it to the "not assigned" list. To do so you have to

- Click the **Edit** button.
- On the list of scheduled operations (Fig 130 A), click the row corresponding to the operation you wish to remove.

The rectangle on the left (the one displaying the scheduled time) turns yellow (Fig 134)



The **Not Assigned** button on the command bar activates.

Click the **Not Assigned** button (Fig 133 **B**).

The operation is this way moved to the "not assigned" list.

Hence, use the **Edit** button on the on the main page of the Room Plan module to

- Change the time scheduled for an operation.
- Add one of the operations from the "not assigned" list to the daily schedule.
- Remove one of the operations from the daily schedule and add it to the "not assigned" list.

4.4.7. Room markers

The markers relating to the room events (Fig 135) are displayed and recorded in the column on the left side of the page (Fig 123 B).



Fig 135 – Room markers

These markers make it possible to record any occurrence which is considered significant and of which a record is required. The system makes it possible to record the event and the time at which it occurred.

The number and nature of room events change according to the needs of the organization and depend on the particular configuration of the system used. Remember that the procedures explained in this paragraph are only an example of configuration.

The room markers in this configuration are

- Room opens
- Start of maintenance
- Start of cleaning
- End of cleaning
- End of maintenance
- Room closes

The markers are displayed on the left side of the screen as a sequence of boxes. The boxes are arranged in chronological order.

The box relating to the marker initially appears in ocher yellow and does not contain any information on the moment (the time and day) in which the event took place. This means that the marker has not yet been recorded, the corresponding event has not yet occurred (Fig 136).



Fig 136 – First room marker

To record a marker, simply click the corresponding box. The box turns gray and records the time at which it was clicked. A new ocher yellow box (or several boxes, depending on the

configuration) indicating no time appears below it. New boxes refer to subsequent markers (Fig 137).



Fig 137 – Second room marker

In general, to record a marker you have to

Click the corresponding box.

The system automatically records the time at which the box is clicked.

4.4.8. How to edit the room markers

To change the time of a marker after it has been recorded

> Click the box corresponding to the marker for which the time has to be changed.

A numeric keyboard is displayed (Fig 138).

8 9 APERTURA SALA 8.00	7	8	9	13 PR
INIZIO MANUTENZIONE 8.15	4	5	6	
1N1210 PUL121E 8.30	-	2	3	RANCO
FINE PULIZIE 9.00 FINE MANUTEZIONE	()		A <u>n anaste</u>
9.10 CHIUSURA SALA		С		e (ortop
A sale in the set			ZIONE CIECO6	

Fig 138 – Numeric keyboard

> Enter the time required using the keyboard.

To record the new time.

> Click again the box corresponding to the event.

The numeric keyboard disappears and the new time is displayed in the box.

If the time entered is impossible, an error message is displayed.

To delete a marker

> Click the box corresponding to the marker to be deleted.

The numeric keyboard appears (Fig 138).

Click the C button on the keyboard (Fig 138 A).

User confirmation is required.

Click **Yes** to delete the marker.



The deleting of an event implicates the deleting of all subsequent events.

The box corresponding to the event deleted becomes ocher yellow again, indicating no time, meaning that the event has not yet occurred.

5. The OranJ Central module

The OranJ Central module provides a general summary of the situation of the whole surgical area or block. OranJ Central can be used for monitoring the state and availability of the operating structures in real time.

The OranJ Central module is installed on the BLOCK CENTRAL STATION and GENERAL CENTRAL STATION workstations.

5.1. The main page

Fine 15.53 Sala 3 Fine 16.40 Sala 4 sala 5 ala 6 _{ala} 1 .2 Fine 15.48 BY PASS AORTOEPA. BY PASS ILIACO-R.. 0.54 15 500.492.00 iala **7** iala 8 9 Fine 18 20 iala **10** ala 11 **12** Fine 16.55 Fine 15.29 ESTRAZIONE DENTE. RESEZIONE CIÈCO ... ALTRA OCCLUS.CHI.. 5.05 0.30 15.00 BH05 Fig 139 – OranJ Central

The main page of this module (Fig 139) represents a surgical block.

The **BH05** button on the command bar (Fig 139 **B**) makes it possible to select different blocks. It is only enabled when working with a General Central Station workstation, covering several surgical blocks. The name of the block displayed is displayed on the button.

If you are working on a Block Central Station workstation, which covers only one surgical block, this button is not enabled.

Every cell (Fig 139 **A**, Fig 140) represents an operating room.

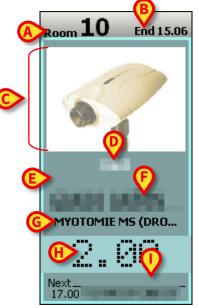


Fig 140 – Operating room detail

Every cell can contain the following information (Fig 140):

- The room number (Fig 140 A).
- The time envisaged for the end of the operation in progress (Fig 140 B).
- The picture of the operating table. This is only possible if a webcam is installed in the room (Fig 140 **C**).
- The name of the hospitalization unit requesting the operation (if specified Fig 140 D).
- The name of the operating surgeon (if already assigned Fig 140 E).
- The patient's name (Fig 140 **F**).
- The type of operation (Fig 140 G).
- The time remaining until the end of the operation in progress according to the planned duration (if the operation is in progress, this is the case shown in Fig 140 **H**).
- The scheduled operation start time (if the operation has not yet started, this is the case shown in Fig 139 **A**)
- The patient's name and the type of operation, if any, which will follow the one in progress (Fig 140 I).

When there is less than half an hour until the envisaged end of the operation the corresponding part of the cell becomes yellow and starts flashing.

When an operation exceeds the time envisaged, the corresponding part of the cell turns red, indicating, with a negative number, the delay time. The color of the cell indicates the current "state" of the operation.

Four different operation states are possible.

- Scheduled the operation has been scheduled; i.e., an operation has been associated to a patient.
- Ready the patient has undergone block check-in
- In progress the patient has entered the operating room
- Completed the operation has been completed.

On the pages of OranJ, each of these four states is identified by a color.

- Light gray: indicates that the operation is scheduled (Scheduled)
- Green: indicates that the patient has undergone block check-in (Ready)
- Blue: indicates that the patient has entered the operating room (In progress)
- Dark gray: indicates that the operation has been completed (Completed)

1

Completed operations are not displayed on the main page of the OranJ Central module. Therefore, there will be no dark gray cells.

Click the box containing the picture of the room (or the picture of the webcam) to access a page containing detailed information of the selected operating room (Fig 142).

Click any other part of the cell to open a window (Fig 141) containing the main data of the operation.



Fig 141 – Operation details

Click the **Select** button (Fig 141 **A**) to access the "OranJ Form" page relating to the operation clicked (Fig 11). The window shown in Fig 141 disappears after a few seconds. Click on it to make it disappear immediately. Click the "thumbtack" indicated in Fig 141 **B** to "pin" it to the page.

5.2. Operating Room detail

The page shown in Fig 142 displays all the details of the selected operating room.



Fig 142 – Operating room monitor

To access this page it is necessary to

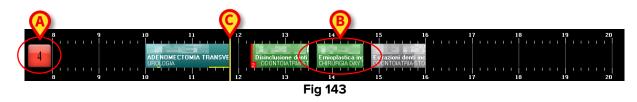
Click the area of the cell showing the picture of the room or the picture of the webcam (Fig 140 C).

The area on top shows the name of the surgical block, the room number, the patient's name and the type of operation (Fig 142 A).

Beneath it there is a time line displaying the daily schedule of the room (Fig 142 B).

5.3. Room schedule

There is a time line in the upper part of the page, schematically representing the schedule of the operating day (Fig 142 **B**, Fig 143).



The box on the left (Fig 143 **A**) contains the room number. If enabled by configuration, the color of that box provides information on the state of the operation that is more relevant at present time.

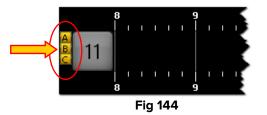
There are four possible configuration options regarding the room number box color:

- room numbers are always gray;
- only operation states are highlighted;
- only late and close to end operations are highlighted;
- both operation states and late/close to end operations are highlighted .

In this last case the room number color changes according to the following priorities:

- if an operation is late the box turns red;
- if an operation is close to the end (30 minutes or less in the configuration here described) the box turns yellow;
- if an operation is in progress the box turns cyan;
- if an operation is ready (and no operation is in one of the above mentioned states) the box turns green;
- if an operation is planned (and no operation is in one of the above mentioned states) the box turns light gray;
- if there are no operations or all the operations in the room are completed the box turns dark gray.

Possible letters placed beside the room number (Fig 144) indicate the room devices. The relationship between a letter and a device is defined by configuration.



The numbers along the line represent the hours of the day.

The boxes placed on the line represent the operations either scheduled, in progress or completed in that room. The color of the boxes corresponds to the operation state. The association between color and operation state is explained in paragraph 4.2

The size of every box is proportional to the scheduled duration of the corresponding operation. The longer the box, the longer the scheduled duration of the operation.

The position of every box indicates the scheduled time for the operation. The left side of the box is positioned in line with the start time scheduled for the operation.

For example, the box indicated in Fig 143 **B** corresponds to an operation which should start at 13:40 and should last one hour.

If the data relating to an operation is changed, i.e., if the scheduled time or duration is changed, the system automatically moves the corresponding box on the page and/or changes its size.

See paragraph 3 to find out how to change the data of a scheduled operation.

The vertical yellow cursor indicates the current time (Fig 143 C). In the example shown in the figure, the yellow cursor is in line with 11:50. The cursor moves with time. If the cursor meets the start time established for an operation (i.e., the left side of a box) and the operation does not start at the established time, the box moves in time together with the cursor.

In general

- completed operations (dark gray) are all on the left of the time cursor,
- scheduled operations (light gray) and those that have only undergone block check-in (green) are all on the right of the time cursor,
- in progress operations (cyan) are across the time cursor.



Data relating to completed operations (duration, start time, end time etc...) are actual data; data relating to scheduled operations are planned data.

If enabled by configuration, the possible operation delay is visible on a yellow bar placed at the bottom of the operation-rectangle (Fig 145).



Fig 145

A configuration parameter makes it possible to display separately the possible delays in pre surgical, surgical and post surgical durations. That is the case shown in Fig 145. In the figure here displayed the three yellow bars indicate

- 1) a 5 minutes delay in the pre surgical planned duration (Fig 145 A);
- 2) a 15 minutes delay in the surgical planned duration (Fig 145 B);
- 3) a 10 minutes delay in the post surgical planned duration (Fig 145 C).

The operation shown in the figure is still in progress. Total delay is 30 minutes so far. This value is indicated in the "residual time" area on the "OranJ Home" screen (see paragraph 2.9).

The operations envisaged after the overrunning operation is automatically postponed by the system.

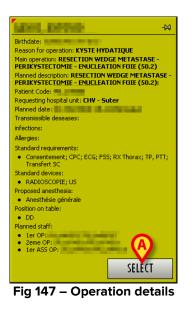
The operations scheduled after the delayed ones are, if necessary, automatically postponed.

The operations indicated as "Emergencies" are characterized by a red stripe on the left (Fig 146). The small box indicated in Fig 146 **A** specifies the emergency level. In the configuration here described there are three possible emergency levels.



Every operation box can be clicked, whether on the page or the "not assigned" column (see paragraph 4.3).

Click one of the boxes to open a window (Fig 147) containing the main data of the operation.



Click the **Select** button in the window (Fig 147 **A**) to access the "OranJ Form" page relating to the operation clicked (Fig 11).

5.4. The command bar



On the command bar, the three buttons **6 Hours**, **12 Hours**, **24 Hours** (Fig 148 **A**) make it possible to change the time range displayed. By clicking the **6 Hours** button, for example, the time range of 6 hours is displayed, while a click the **12 Hours** button displays the time range of 12 hours.

The arrow buttons (Fig 148 **B**) make it possible to move backwards and forwards in the time range displayed. If, for example, you are displaying the time range going from 12:00 to 24:00, click once the right arrow to display the time range going from 15:00 to 3:00 of the following day. Likewise, click once the left arrow to display the time range going from 9:00 to 21:00.

The **Close** button closes the window.

5.5. "Room monitor" page contents

The central part of the page (Fig 142 **C**) displays, on the left, the enlarged picture of the operating room taken by the webcam, if installed. The details of the operation in progress are displayed on the right. In particular, in this section of the screen you can read the start time scheduled for the operation, the patient's name and the type of operation.

The time specified is that at which the operation should have started and not that at which it actually starts.

The lower part of the page (Fig 142 **D**, Fig 149)) displays data relating to the operation in progress.

PLANNED DURATION		11:45 - Ingresso sala	SESSION DELAY
1.40	2.35	12:00 - Inizio Proc. Anest.	0.00
ELAPSED TIME	RESIDUAL TIME	12:30 - Incisione	SESSION END
	RESIDUAL THE	16:21 - Fisiologica 1000 1000 ml	
4.44	-0.27	16:22 - NOTA CHIRURGO	

Fig 149 - Operating times detail

The area shown in Fig 149 is described in the following paragraphs.

5.6. Operating times detail

The area indicated in Fig 142 **A** and Fig 150 provides detailed information on both the room times and the current operation progresses.

	Operati	ion times	B Markers and events	Room times		
	PLANNED DURATION	VARIATIONS	11:45 - Ingresso sala 12:00 - Inizio Proc. Anest.	SESSION DELAY		
	ELAPSED TIME	RESIDUAL TIME	12:30 - Incisione 16:21 - Fisiologica 1000 1000 ml 16:22 - NOTA CHIRURGO	SESSION END		
Fig 150						

There are three sections in the area:

- 1) the section indicated in Fig 150 **A** is formed of four timers displaying the currently selected operation times. These timers are described in paragraph 5.6.1;
- 2) the section indicated in Fig 150 **B** displays the chronological list of all the markers and the events recorded for the currently selected operation;
- 3) the section indicated in Fig 150 **C** is formed of two timers displaying the overall operating room times. These timers are described in paragraph 5.6.2.

5.6.1. Operation times

Operation times indicated on the bottom-left corner of the screen (Fig 150 **A**, Fig 152) refer to the operation that is either in progress in the operating room or is the next planned operation. The operation main data are displayed near the screen header (Fig 151).

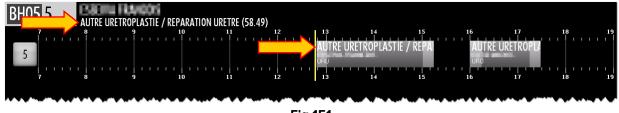


Fig 151

There are four timers indicating the operation times (Fig 150 A, Fig 152).

PLANNED DURATION	VARIATIONS			
1.30	0.00			
ELAPSED TIME	RESIDUAL TIME			
	1.30			
Fig 152				

1) The "PLANNED DURATION" timer displays the <u>planned</u> duration of the selected operation and indicates the sum of the pre-surgical, surgical and post-surgical times.

The value displayed on this timer changes only when the successive operation is selected.

- 2) The "ELAPSED TIME" timer displays the time actually elapsed since the beginning of the operation. This timer starts when the operation switches to the "In progress" state, i.e. when the "Room-in" marker is recorded on the "OranJ Home" screen.
- 3) The "VARIATIONS" marker displays the additional time possibly requested by the operating room staff on the "OranJ Home" screen through the relevant buttons on the "Residual time" area.
- 4) The "RESIDUAL TIME" timer displays the time remaining to the end of the operation (calculated both on the planned times and on the possible variations requested by the operating staff, those displayed on the "VARIATIONS" timers). This timer displays the same time displayed on the "OranJ Home" screen, on the "Residual time" area.



Please note that the sum of the times displayed on the "PLANNED DURATION" and "VARIATIONS" timers is equal to the sum of the times displayed on the "ELAPSED TIME" and "RESIDUAL TIME" timers.

Times shown in Fig 152 correspond to an operation that is either in "Planned" or "Ready" state (i.e. the operation hasn't started yet).

Next paragraphs explain the behavior of the "Operating room monitor" screen timers and show the relation with the relevant markers recording on the "OranJ Home" screen.

5.6.1.1. Operation beginning - "Room in" marker

The operation switches to the "In progress" state (Fig 153 **A**) when the "Room in" marker is recorded on the "OranJ Home" screen. The "Room in" marker implies the beginning of the pre-surgical time.

When the pre-surgical time begins the "ELAPSED TIME" and "RESIDUAL TIME" timers start displaying their values (Fig 153 **B**).

BH05 16 REDUCTION FERMEE ET OSTEOSYNTHESE COL FEMORAL (GAUCHE) (FEMUR PROXIMAL) (79.15)						
TU CHP		TE		CHV		17 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				24.01		OSTEOSYNTHESE COL FEMORAL
B						
PLANNED DURATION	VARIATIONS	9:42 - Entrée 11:20 - Entré				SESSION DELAY
ELAPSED TIME	RESIDUAL TIM					SESSION END
0.12	1.18					16.40
	61	IOURS 12 HOURS	24 HOURS			CLOSE
Fig 153						

5.6.1.2. Surgical time beginning - "Cut" marker

Pre-surgical time ends when the "Cut" marker is recorded on the "OranJ Home" screen. If enabled by configuration, a yellow bar at the bottom of the operation-rectangle indicates the possible delay on the pre-surgical time (Fig 154 **A**). The yellow bar length is proportional to the delay amount.



Fig 154 - Pre-surgical time delay

The "Cut" marker implies the beginning of the surgical time. This change is highlighted on the operation-rectangle by a change in the color shade (Fig 155 **A**).

BH05 18 DERMABRAS	ON (86.25)				
		IN FERM	anotomie exploratrice,	/second	17 18 19
7 8	3 TRA 9 10	ORL 11 12	13 14	<u>15</u> 16	17 18 19
				8.00	DERMABRASION (86.25)
B					
PLANNED DURATION	VARIATION		ée au Bloc		SESSION DELAY
2.90	0.00	0.1 E D =	e en Salle se au chirurgien		0.00
ELAPSED TIME	RESIDUAL TI		se aa chirdryich		SESSION END
		6 HOURS 12 HOURS	24 HOURS		LL
			166	N	

Fig 155

In Fig 155 **B** timers indicate that:

- 1 hour and 34 minutes passed since the operation began (ELAPSED TIME);
- planned residual operation duration is 26 minutes (RESIDUAL TIME);
- no additional time was requested by the operating staff (VARIATIONS);
- operation planned duration *was* 2 hours (PLANNED DURATION).

The "PLANNED DURATION" timer does not change until the current operation is completed. It displays in fact the duration that was planned before the operation started and does not depend on the possible variations recorded during the operation.

The time actually elapsed is displayed on the "ELAPSED TIME" timer.

If enabled by configuration, when the planned surgical time ends, the system starts indicating the delay with a yellow bar at the bottom of the operation-rectangle. The yellow bar length is proportional to the delay amount (Fig 156 A).



Fig 156 - Surgical time delay

5.6.1.3. Post-surgical time beginning - "Suture" marker

Surgical time ends when the "Suture" marker is recorded on the "OranJ Home" screen. A different shade of the operation-rectangle color indicates this switch (Fig 157 **A**). The "Suture" marker implies the beginning of the post-surgical time.

CPR .		12 13	17 18 19
PLANNED DURATION	VARIATIONS	8:00 - Entrée au Bloc 8:20 - Entrée en Salle	SESSION DELAY
ELAPSED TIME	RESIDUAL TIME	8:50 - Remise au chirurg 10:00 - Fin d'intervention 12 HOURS 24 HOURS Fig 157	SESSION END

Fig 157

In Fig 157 **B** timers indicate that

- 2 hours and 01 minutes passed since the operation began (ELAPSED TIME);
- RESIDUAL TIME is 2 minutes. Residual time is calculated on the sum of the PLANNED DURATION value plus the VARIATIONS value (01:30h plus 00:33h in the example shown in Fig 157 B), less the ELAPSED TIME value (elapsed time is 02:01h, therefore residual time is 2 minutes).
 A negative value displayed on this timer indicates the possible delay amount. See for instance Fig 158 A.
- 33 additional minutes were requested by the operating staff (VARIATIONS);
- operation planned duration <u>was</u> 1 hour and 30 minutes (PLANNED DURATION).

BH05 23 CCA CORRE	CPR	12 13 14 TION CIC LIPOFILLING (86.83) CEPE 12 13 14 8.15	17 18 19
PLANNED DURATION	RESIDUAL TIME	8:00 - Entrée au Bloc 8:20 - Entrée en Salle 8:50 - Remise au chirurgien 10:00 - Fin d'intervention	SESSION DELAY
		12 HOURS 24 HOURS	Li trif in Alifadi. CLOSE

Fig 158 - Operation delay

If enabled by configuration, a yellow bar at the bottom of the operation-rectangle indicates the possible delay on the post-surgical time. The yellow bar length is proportional to the delay amount (Fig 159 **A**).



Fig 159 - Post-surgical time delay

The overall operation delay does not depend on the specific delays on the presurgical, surgical and post-surgical times indicated by the yellow bars at the bottom of the operation-rectangle.

In Fig 158, for instance, the overall operation delay is 9 minutes, but the postsurgical time delay is 17 minutes (planned post-surgical time was 15 minutes and it is in progress since 32 minutes).

5.6.1.4. Operation end - "Room out" marker

Operation ends when the "Room out" marker is recorded on the "OranJ Home" screen. The operation switches to "Completed" state. The operation-rectangle represents now the actual operation times and indicates both the overall duration and the specific durations and the delays (if enabled by configuration) of the pre-surgical, surgical and post surgical times (Fig 160 **A**)

CORRECTION CICATRICE (86.84) CORRECTION CICATRICE (86.84) CORREC	
PLANNED DURATION VARIATIONS	SESSION DELAY
1.30 0.00	0.32
ELAPSED TIME	SESSION END
6 HOURS 12 HOURS 24 HOURS	CLOSE

Fig 160

The successive operation is automatically selected (Fig 160 **B**), its main data are displayed alongside the screen header (Fig 160 **C**). Timers display the times of the selected operation (Fig 160 **D**).

5.6.1.5. Variations requests

The operating staff, when the operation is in progress, can request any moment additional time.



Duration variation requests are managed on the "OranJ Home" screen (paragraph 2.1).

The next two figures (Fig 161 and Fig 162) illustrate the changes on the operating room timers after a time variation request.

PLANNED DURATION VARIATIONS 8:00 - Entrée au Bloc SESSION DELAY	
1.30 0.00 ×20 - Entrée en Salle	
ELAPSED TIME RESIDUAL TIME 8:10 - Remise au chirurgien SESSION END	
1.27 0.03 14.05	
6 HOURS 12 HOURS 24 HOURS CLOSE	

Fig 161 - Times before variation request

Before requesting additional time the "Operating room details" screen timers display the following values (Fig 161 **B**):

- 1 hour and 27 minutes passed since the operation began (ELAPSED TIME);
- planned residual operation duration is 3 minutes (RESIDUAL TIME);
- no additional time was requested by the operating staff (VARIATIONS);
- operation planned duration <u>was</u> 1 hour and 30 minutes (PLANNED DURATION).

The operating staff requests 33 additional minutes. The "Room monitor" screen displays this change in the following way (Fig 162).

	RRECTION A TRIC		LPR	13	14 15	17 	
PLANNED DURATION	- 10 A	·····	8:00 - Entré 8:20 - Entré			SESSION	DELAY
ELAPSED TIME		ALTIME	8 50 - Remi 12 HOURS	se au chirur <u>c</u> 24 HOURS	ien	SESSIO	23

Fig 162 - 30 minutes variation

After requesting additional time the "Operating room monitor" screen timers display the following values (Fig 162 **B**):

- 1 hour and 28 minutes passed since the operation began (ELAPSED TIME);
- planned residual operation duration is 35 minutes (RESIDUAL TIME);
- 33 additional minutes were requested by the operating staff (VARIATIONS);
- operation planned duration <u>was</u> 1 hour and 30 minutes (PLANNED DURATION).

The corresponding operation-rectangle length indicates the overall duration (2 hours and 3 minutes, Fig 162 **A**).

Note that the variation causes a delay in the planned session end time (it was 14:05 before the variation). The new planned session end time and the session delay amount are now displayed on the timers on the right (Fig 162 C - see next paragraph 5.6.2 for the "Room times" timers description).

5.6.2. Room times

Room times refer to the overall timing of the operative session. Two timers display the relevant times: session delay and session end (Fig 150 C, Fig 163).





5.6.2.1. Session end

The SESSION END timer displays the planned end time of the last operation in the room. The time indicated by the SESSION END timer always corresponds to the right limit of the last operation-rectangle shown on the time bar (Fig 164 **A**)

BH05 16 BONCTION AS						A
		DN FERMEE ET OSTE	05 ' P	UNCTIO CURE DE	16 HERNIE INGUINA	LE BI
CHP	TRA 9 10 11	12	13 0 1	P R CHV 14 15	16	17 18 19
PLANNED DURATION	VARIATIONS					SESS
0.45	0.00					
ELAPSED TIME	RESIDUAL TIME				(SESSION END
	1:11 6 HOURS	12 HOURS	24 HOURS			
	0110083	12 1100103	21.1.50105	4	P	

Fig 164 - Session end

5.6.2.2. Session delay

The SESSION DELAY timer indicates if the operations planned in the room are likely to cause a delay in the operative session and, in case, displays the possible delay amount. See for instance Fig 165 A.

BH05 16 REDUCTION F			OTP CHV	HERNIE INGUINALE	10 19 10 19 10 19 10 19 10 19 10 19 REDUCTION FRAME ET OSTEOSYNTHESE COL FEMORAL
PLANNED DURATION	VARIATIONS	9:42 - Entrée au Bloc			SESSION DELAY
1.30	1.00	11:00 - Entrée au Bloc 11:30 - Entrée en Salle 11:30 - Remise au chirurgio	en	(0.20
ELAPSED TIME	RESIDUAL TIME				SESSION END
	6 HOURS	12 HOURS 24 HOURS			CLOSE

Fig 165 - Session delay

In Fig 165 the planned session end was 16:40 when the room opened. The delay caused by the operation times variations made the planned end of the last operation become 17:00. The SESSION DELAY timer displays therefore a 20 minutes delay.

As long as the room is open and the operative session goes on it is a *planned* time, not an actual one. In case the operations in the room last longer than planned, this time increases, in case they last less, this time decreases.

When the last planned operation is completed the SESSION DELAY time becomes an actual value.

When the SESSION DELAY time is negative it means that the planned end of the last operation is anticipated.

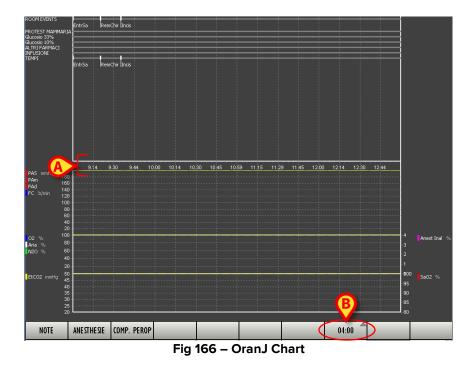
6. OranJ Chart module

The OranJ Chart module provides a graphic representation in real time of some of the patient data collected during the operation; at the same time, this module makes it possible to display the events recorded on a time line.

The module is present on GENERAL CENTRAL STATION and OPERATING ROOM workstations.

The main page of the module can change considerably depending on the configuration chosen. That shown in Fig 166 is an example of configuration.

6.1. Page features



The series of numbers highlighted in Fig 166 **A** indicates the time of the day. If the operation for which the data is displayed is still in progress, a vertical yellow cursor indicates the current time.

You can change the time range displayed using the button on the command bar highlighted in Fig 166 **B**.

Click the button to open a pull down menu that makes it possible to select 2, 4, 8, 12 or 24 hours (Fig 167).

02.00	
04.00	
08.00	
12.00	
24.00	
08:00	

Fig 167 – Time range selection

The option selected is displayed on the button. In Fig 166, for example, an 8-hour time range is displayed.

You can display time ranges subsequent or prior to the current range using the mouse. To do so, simply move the mouse to the area of the chart for which you wish to change the display mode, left click it and, keeping the button pressed, move left/right as needed. The page moves together with the cursor of the mouse. If you are working with a touch screen, you can perform the same operation with fingers. The page is split into two areas: the "Events" area and the "Chart" area.

6.1.1. The "Events" area

The upper part of the screen (Fig 168) shows on different time lines the events recorded.

PROTEST MAMMARIA Slucosio 33% Glucosio 10% ALTRI FARMACI	InSo	IPA	Incis		Sutu	ra FinPrAn			utBlo					
INFUSIONI TEMPI	InSo	ІРА	Incis		Sutu	ra FinPrAn								
200	12	44 13.00	13.14 1	3.30 13.45	13.59	1415	14.29	14,45 15	00 1514	15.30	15,44	16.00	16.14	

Fig 168 – Events Chronology

Both the markers (Fig 168 **A**) and other room events such as the drugs administered, any infusions, anesthesiological and surgical procedures implemented, etc. are shown (Fig 168 **B**). The number and nature of the events displayed depend on the configuration selected and the user's requirements.

See paragraph 2.4 for details on the various types of event.

An event is marked on the time bar in correspondence with the moment in which it is recorded. In the figure, for example, the "Suture" event was recorded at 13:59 (Fig 168 **C**).

In the example chart, the markers are abbreviated this way:

- Block entrance InBlo
- Room in InSo
- Start of Anesthesiology Procedure IPA
- Skin incision Incis

- Suture Sutura
- End of Anesthesiology Procedure FinPrAn
- Room out OutSo
- Block exit OutBlo

Remember that the number and nature of the markers change according to the configuration chosen.

6.1.2. The "Chart" area

The lower part of the screen (Fig 169) displays the trends of the parameters acquired by the room devices.

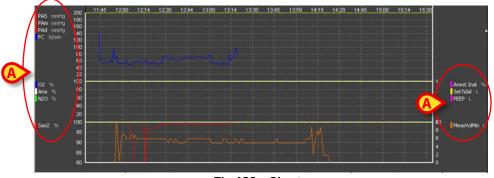


Fig 169 - Charts

The charts are created in real time and updated every minute.

The number and nature of the parameters acquired change according to contingent requirements.

The side areas list the kind of data that can be displayed in the charts in the current configuration (Fig 169 **A**). Alongside every type of datum the color used to trace the line of the chart for that datum is displayed.

You can display different quantity ranges using the mouse. To do so, simply move the mouse to the area of the chart for which you wish to change the display mode, left click and, keeping the button pressed, move up or down as needed. The page moves together with the cursor of the mouse.

If you are working with a touch screen, you can perform the same operation using fingers.

6.1.3. The command bar

NOTE	ANE STHE SIE	COMP. PEROP					04:00		
Fig 170 Oran I Chart screen command har									

Fig 170 – OranJ Chart screen command bar

The buttons on the command bar (Fig 170) make it possible to record the configured room events directly from the OranJ Chart module.

The number and nature of the buttons depend on configuration. The procedure required to add a specific event is described in paragraph 2.5.

7. Check-In configuration

The Check-In configuration of the Digistat OranJ system is used to identify the patient at block check in and check out.

Identification is usually performed by scanning the patient's barcode. If barcode reading function is not enabled a manual procedure is available.

"Barcode" procedure is described in paragraph 7.2.1, manual procedure is described in paragraph 7.2.2.



Barcode technology is recommended when identifying a patient. Scanning the patient's barcode, instead of selecting it manually, statistically reduces the selection errors possibility.

7.1. Modules in use

The check-in configuration usually includes two modules: the OranJ Plan module, making it possible to monitor the state of the operating block, and the OranJ Check-in module, making it possible to identify the patient when entering the operating block.

7.1.1. OranJ Plan

The OranJ Plan module offers a birds-eye view of the state of the operations in the operating block.

To select the module

Click the corresponding icon - On the Digistat lateral bar.

The following screen will is displayed (Fig 171).

		NOT ASSIGNED
1		11 12 13 14 15 16 17 18 19 REDUCTION FERMEE ET OSTEO.
2	MENISCECTON PL	ISTIE DU LIGAM REDUCTION FERME
3		ARTHROPLASTIE TOTALE GENOU (DRI
4		CHV
5	FISTULE ARTERIO	
6		
7		
8	MAMMOPLASTIE BILATERALE	
9		PLASTIE OU REMPLACEMENT VALVE AORT ABLATION PONTAGE ILIO-FEMORI
10	LOBECTOMIE SUPERI	URE THORAC
11		CRANIOTOMIE
12		
13		AUTRE EXCISI EXERESE CHOLESTEATOME TECHNI
u 14		PROCTECTOMIE PARTIELLE RESECTION RECTUM (48.6)
<mark>15</mark>		
16		
17		
18	GREFFE F OS	EOTOMIE LEFORT I (76.66)
19		
<mark>c</mark> 21		
2 3		
EXT	7 8 9 10	
ED	NT BH05	12:00 TODAY BLOC
		Fig 171 - OranJ Plan



The OranJ Plan module is described in chapter 4 in this manual. See chapter 4 for a description of the module's functionalities.

Some buttons on the command bar are disabled because this configuration only enables monitoring one block on the current day. Thus it is not possible to use the "Edit" functionalities to change the operating plan; it is not possible to change the day displayed; it is not possible to display a different block.

The time span display functionalities are still active (i.e. it is possible to use the **12:00** button on the command bar to display either 6, or 12 or 24 hours on the same screen).

7.1.2. OranJ Check-In

The OranJ Check module can be used to identify the patient at block check in and check out. To select the module

 \succ Click the corresponding icon \bigcirc on the Digistat lateral bar.

The following screen is displayed (Fig 172).

	LIST OF OPERATIONS IN BLOC 'Blocco Operatorio' PLUS RESERVES									
AB	CHEC	KIN	CHECK OUT							
C	5 BLO EGDs diagnostica 17.30 CARDIOCHIRURGIA		10 BLD Settoplastica funzionale ORI. E CH CERVICO-PACIALE							
DE	9 BLO Blefaroplastica inferiore bilaterale 18:12 1 CARDIOCHIRURGIA		8 BLO FESS: 70 minuti 2 Casa di Cura UROLOGIA							
F	7 BLO ENDOPROTESI D'ANCA 8:00 I ORTOPEDIA E TRAUMATOLOGIA		5 Or mano- dito a scatto - tenolisi 1 ORTOPEDIA E TRAJMATOLOGIA							
G	7 BLO Adenoidectomia 8.58 2 NEFROLOGIA	_	9 BLO Altro intervento proctologico							
HI	6 BLO Asportazione corpo estraneo 16.40 1 Casa di Cura CHIRURGIA VASCOLARE		4 BL0 Trapianto cordonale con tecnica infusionale intraossea > EMATOLOGIA							
J KL	7 BLO Innesto sostituto osseo 1655 1 ORTOPEDIA E TRAUMATOLOGIA	_	10 Innesto sostituto osseo OntroPEDA E FRAMATOLOGIA							
M	4 BLO Colposacropessia Iaparoscopica 1950 2 Casa di Cura OSTETRICIA	_	1 BLO TUMORECTOMA RENALE 1500 FIELWATOLOGIA							
N	8 BLD Traumi - esiti frattura - rimozione viti									
OP	3 BLO Sostituzione espansore con protesi + mastor CHIRURGIA PLASTICA	lastica controlaterale								
Q	3 BLO Sostituzione espansore con protesi + mastor 10.35 CHIRURGIA PLASTICA									
RS	BLO Exercisi Lipoma 1310 CHIRURGIA PLASTICA									
T	13.10 CHIHURGIA PLASTICA									
U										
VW	ī									
X										
YZ										
ALL										
BI	O OTHER NONE	RESERVES	TODAY							
		Fig 172 - O	ranJ Check-in							

The screen is split in two columns. The operations for which the block check-in has not yet been performed are listed on the left column (Check-In). These operations are all in "Planned" state. The column on the right lists the operations for which the block check-out has not been performed yet.

In the OranJ system an operation is completed when the "Room out" marker is recorded. See paragraph 2.4 for the explanation of the "markers" in the Digistat OranJ system.

The **Reserves** button on the command bar can be selected to display, on the left column, the "Reserves" operations as well, for which the check-in procedure has not been completed. See paragraph 4.3 for an explanation of the meaning of "Reserve" operation.

7.2. How to perform the patient check-in

7.2.1. Check-in procedure by barcode reading

If barcode selection functionalities are enabled, to perform the patient check-in

- Access the "Check-in" screen (Fig 172).
- Scan the barcode of the patient who is entering the operating block.

A patient identification window is displayed (Fig 173).

PATIENT IDENTIFICATION	\diamond
Patient Code 2006	
B IDENTIFY CANCEL	
I I]
tab q w e r t y u i o p è + u lock a s d f g h j k l ò à enter	
shift z x c v b n m , shift	
ctri wia alt de la constant de la co	

Fig 173 - Patient identification

The patient code is visible in the field indicated in Fig 173 A.

Click the **Identify** button (Fig 173 **B**).

The window changes in the following way (Fig 174).

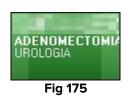
PATIENT IDENTIFICATION Patient Code	Born on, agey Male, Weight kg I, ADMIN, hereby declare to have thoroughly verified the identity of patient				
Password I Z J 4 5 tab q w e r t lock a 5 d f shift Z X C v ctrl win at	YERIFY CANCEL 6 7 8 9 0 1 b back y u i 0 p è + à g h j k 1 ò à enter b n m . . . shift ak gr meau 				

Fig 174 - User identification

The window shown in Fig 174 requires user identification. The logged user declares this way that he/she personally verified the patient identity.

- Insert user password in the field indicated in Fig 174 A.
- Click the **Verify** button (Fig 174 **B**).

The block check-in is this way completed. The corresponding operation-rectangle disappears from the "Check in" column on the screen. On the "OranJ Home" screen (Fig 11) the "Block-in" marker is this way recorded. The operation turns to "Ready" state; the corresponding rectangle is now green (Fig 175).





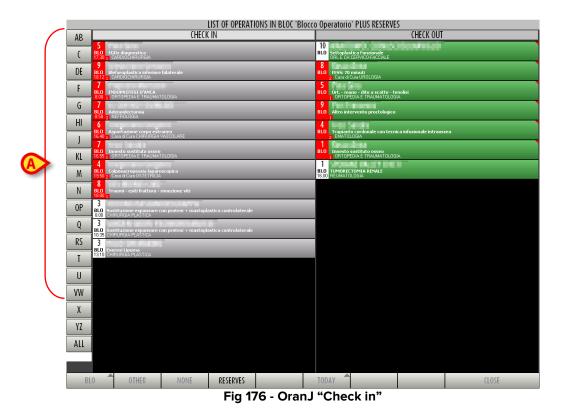
See paragraph 1.3 for a description of the possible operation states and the associated colors.

See paragraph 2.1 for a detailed description of the "OranJ Home" screen.

7.2.2. Manual check-in procedure

Manual check-in is possible if barcode selection is not available. To perform this procedure

Click the Check-in icon on the lateral bar to access the OranJ "Check in" module (Fig 176).



On the left column ("Check in" column),

Click the rectangle corresponding to the patient/operation that is checking-in (Fig 176
 A). A patient identification window opens (Fig 177).

	PATIENT ID FICATION	\diamond
$\left(\right)$	Patient Code 2006	
		B
		IDENTIFY CANCEL
	↓ I 2 3 4 5 6 7 8	9 0 ' i back
	tab q w e r t y u	i o p è + ù
	lock a s d f g h j	k l ò à enter
	shift z x c y b n	m , shift
	ctrl win alt	akt gr menu

Fig 177 - Patient identification

- > Type the patient code in the field indicated in Fig 177 **A**.
- Click the Identify button (Fig 177 B).

The window changes in the following way (Fig 178).

	PATIENT IDENTIFICATION								
	Patient Code]	Born on, agey Male, Weight kg I, ADMIN, hereby declare to have thoroughly verified the identity of patient						
\langle	Password	\sum		VERIFY	CANCEL				
	I Z 3 tab q w	4 5 e r t	6 7 8 y u	9 0 ·	i back è + ù				
	lock a s	d f	g h j	k I ò	à enter				
	shift z	х с ү	b n	m ,	shift				
	ctrl win alt			ak gr menu					

Fig 178 - User identification

The window shown in Fig 178 requires user identification. The logged user declares this way that he/she personally verified the patient identity.

- Insert user password in the field indicated in Fig 178 A.
- > Click the **Verify** button (Fig 178 **B**). The block check-in is this way completed.

The corresponding operation-rectangle disappears from the "Check in" column on the screen shown in Fig 176. On the "OranJ Home" screen (Fig 11) the "Block-in" marker is this way recorded. The operation turns to "Ready" state; the corresponding rectangle is now green (Fig 179).





See paragraph 1.3 for a description of the possible operation states and the associated colors.

See paragraph 2.1 for a detailed description of the "OranJ Home" screen.

7.3. How to perform the patient check-out

The "Check-in" module makes it possible to record the patient check-out from the operating block. To do that:

> Click the Check-in icon on the lateral bar to access the OranJ "Check in" module (Fig 180).

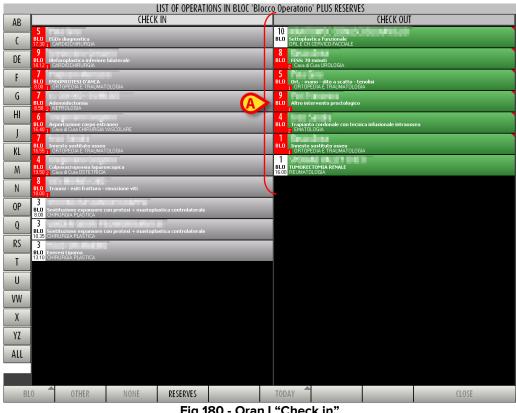


Fig 180 - OranJ "Check in"

On the column on the right ("Check out" column),

- Click the rectangle corresponding to the patient/operation that is checking-out (Fig. 180 A). User confirmation is required.
- Click **Yes** to record the patient's check-out.

On the "OranJ Home" screen (Fig 11) the "Block Out" marker is this way recorded.

8. OranJ - "Bedside"Configuration

The OranJ system can be configured to be used inside the operating room and be this way dedicated entirely to the management of the single room. In these cases the system has specific characteristics and functionalities. This type of configuration is called "bedside".

The bedside configuration of the OranJ system is formed of three modules:

- OranJ
- Charts
- Room Plan

In this case all the information is related to the configured room.

8.1. The Room Plan module

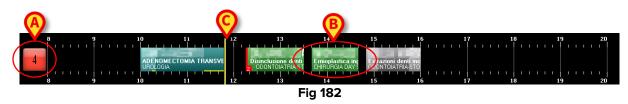
The main page of the Room Plan module (Fig 181) displays information on the daily schedule of the room for which the workstation is configured.

		ſ								
	8) 						17		19 20
	4		ADENOMECTOMI	A TRANSV	Disinclusione denti 2 ODONTOIATRIA-ST	Ernioplastica inc	Estrazioni denti inc			
	8	ADFINIMETONIA TRANSV Dimensione denti Temposatica me Temposatica me Del Dimensione denti Del Dimensione denti Del Dimensione denti Del Dimensione de la companya de la comp								
	APERTURA SALA	DAILY PROGRAM								
	08.00	13.40	60							
	INIZIO MANUTENZIONE 08.10	13.40	60 ADENOM	ectonia transvescicale	- UROLOGIA					
	INIZIO PULIZIE	12.15			ONTOIATRIA-STOMATOLOGIA					
	08.20	13.40		COLUMN DE						
	FINE PULIZIE	13.40		tica inguinale dx/sx - C	HIRURGIA DAY SURGERY					
	08.45	14.50			TOIATRIA-STOMATOLOGIA					
	FINE MANUTEZIONE					NOT ASSIGN	IED			
	09.00	,		ow mou t						
	CHIUSURA SALA	17.00		ernia ombelicale - CHIRI	JRGIA PLASTICA					
		17.00	1.		anea + innesto - CHIRUR(GIA GENERALE				
		,								
		, ,		tica inguinale do/sx - U	HIRURGIA DAY SURGERY					
				tica Funzionale - ORL E	CH.CERVICO-FACCIALE					
		17.00	60		S - CHIRURGIA GENERALE					
		17.00	00 Kadicaliz	zazione melanoma + Ľ	5 - UHIRUKGIA GENERALE	_		_		
- 1	EDIT		NOT ASSIGNED	6 HOURS	12 HOURS	24 HOURS			ແຜ	SE
_				F	ig 181 – I	Room Pla	an			

The figure above shows the daily program of room 4.

8.1.1. Room schedule

There is a time line in the upper part of the page, schematically representing the schedule of the operating day (Fig 181 **A**, Fig 182).



The box on the left (Fig 182 **A**) contains the room number. If enabled by configuration, the color of that box provides information on the state of the operation that is more relevant at present time.

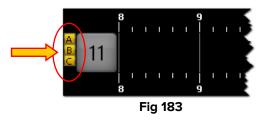
There are four possible configuration options regarding the room number box color:

- room numbers are always gray;
- only operation states are highlighted;
- only late and close to end operations are highlighted;
- both operation states and late/close to end operations are highlighted .

In this last case the room number color changes according to the following priorities:

- if an operation is late the box turns red;
- if an operation is close to the end (30 minutes or less in the configuration here described) the box turns yellow;
- if an operation is in progress the box turns cyan;
- if an operation is ready (and no operation is in one of the above mentioned states) the box turns green;
- if an operation is planned (and no operation is in one of the above mentioned states) the box turns light gray;
- if there are no operations or all the operations in the room are completed the box turns dark gray.

Possible letters placed alongside the room number (Fig 183) indicate the room devices. The relationship between a letter and a device is defined by configuration.



The numbers along the line represent the hours of the day.

The boxes inside the line represent the operations scheduled, in progress and completed in that room. The color of the boxes corresponds to the operation state. The association between color and operation state is explained in paragraph 4.2

The size of every box is proportional to the scheduled duration of the corresponding operation: the longer the box, the longer the scheduled duration of the operation. The position of every box indicates the scheduled time for the operation. The left side of the box is positioned in line with the start time scheduled for the operation.

For example, the rectangle indicated in Fig 182 **B** corresponds to an operation that should start at 13:40 and should last one hour.

If the data relating to an operation is changed, i.e., if the scheduled time or duration is changed, the system automatically moves the corresponding box on the page and/or changes its dimensions.

See paragraph 3 to find out how to change the data of a scheduled operation.

The vertical yellow cursor indicates the current time (Fig 182 **C**). In the example shown in the figure, the yellow cursor is positioned at 11:50. The cursor runs across the page as time goes by.

If the cursor meets the start time established for an operation (i.e., the left side of a box) and the operation does not start at the established time, the box moves together with the cursor.

In general

- completed operations (dark gray) are all to the left of the time cursor,
- scheduled operations (light gray) and those that have only undergone block check-in (green) are all to the right of the time cursor,
- in progress operations (cyan) are across the time cursor.



Data relating to completed operations (duration, start time, end time etc...) are actual data; data relating to scheduled operations are planned data.

If enabled by configuration, the possible operation delay is visible on a yellow bar placed at the bottom of the operation-rectangle (Fig 184).

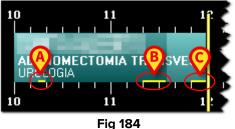


FIG 184

A configuration parameter makes it possible to display separately the possible delays in pre surgical, surgical and post surgical durations. That is the case shown in Fig 184. In the figure here displayed the three yellow bars indicate

- 1) a 5 minutes delay in the pre surgical planned duration (Fig 184 A);
- 2) a 15 minutes delay in the surgical planned duration (Fig 184 B);
- 3) a 10 minutes delay in the post surgical planned duration (Fig 184 C).

The operation shown in the figure is still in progress. Total delay is 30 minutes so far. This value is indicated in the "residual time" area on the "OranJ Home" screen (see paragraph 2.9).

The operations scheduled after the delayed ones are, if necessary, automatically postponed.

The operations indicated as "Emergencies" are characterized by a red stripe on the left (Fig 127). The small box indicated in Fig 185 **A** specifies the emergency level. In the configuration here described there are three possible emergency levels.



Fig 185 - Emergency

Every operation box can be clicked. Click one of the boxes to open a window containing the main data of the operation (Fig 186).

Birthdate:
Reason for operation: KYSTE HYDATIQUE
Main operation: RESECTION WEDGE METASTASE - PERIKYSTECTOMIE - ENUCLEATION FOIE (50.2)
Planned description: RESECTION WEDGE METASTASE - PERIKYSTECTOMIE - ENUCLEATION FOIE (50.2):
Patient Code:
Requesting hospital unit: CHV - Suter
Planned date:
Transmissible deseases:
infections:
Allergies:
Standard requirements:
 Consentement; CPC; ECG; FSS; RX Thorax; TP, PTT; Transfert SC
Standard devices:
RADIOSCOPIE; US
Proposed anesthesia:
Anesthésie générale
Position on table:
• DD
Planned staff:
1er OP: 2eme OP:
1er ASS OP:
SELÈCT

Fig 186 – Operation details

Click the **Select** button in the window (Fig 186 **A**) to access the "OranJ Form" page relating to the operation clicked (Fig 11).

8.1.2. The command bar



On the command bar, the three buttons **6 hours**, **12 hours**, **24 hours** (Fig 187 **A**) make it possible to change the time range displayed. By clicking the **6 hours** button, for example, a time range of 6 hours is displayed.

The arrow buttons (Fig 187 **B**) make it possible to move backwards and forwards in the time range displayed. If, for example, you are displaying the time going range from 12:00 to 24:00, click the right arrow once to display the time range going from 15:00 to 3:00 of the following day. Likewise, click the left arrow once to display the time range going from 9:00 to 21:00.

The **Edit** button (Fig 187 **C**) makes it possible to edit the data on the page. See paragraph 8.1.5 for a detailed description of this functionality.

The **Not Assigned** button (Fig 187 **D**) makes it possible to select a scheduled operation and bring it to the "Not assigned" area. The related procedure is described in paragraph 8.1.5.

8.1.3. The "daily program" area

The "daily program" area (Fig 188 A) provides information on the schedule of the selected operating room.

4			A TRANSV	Disinclusione denti ODONTOIATRIA-ST	Ernioplastica inc CHIRURGIA DAY S	Estrazioni denti inc ODONTOIATRIA STO		18 19 20
8 9 APERTURA SALA		10 11	12	13	DAILY PROGR	15 16 AM	17	18 19 20
08.00	13.40	60	1000		DAILT FROOK			
INIZIO MANUTENZIONE	13.40		CTOMIA TRANSVESCICALE	- UROLOGIA				
08.10	12.15 12.15	45 45 Disinclus		NTOIATRIA-STOMATOLOGIA				
INIZIO PULIZIE 08.20	13.40		COLUMN TO D					
	13.40	30 Ernioplas	tica inguinale do/sx - (F	IRURGIA DAY SURGERY				
FINE PULIZIE	14.50	10	100000000					
08.45	14.50	40 Estrazion	i denti inclusi - ODONI	OIATRIA-STOMATOLOGIA		<u> </u>		
FINE MANUTEZIONE					NOT ASSIGN			
09.00	,		erniz ombelicale - (HIRU			•		
CHIUSURA SALA	17.00	40	Real Property in					
	17.00	40 Asportaz	one neoformazione cuta	nea + innesto - CHIRURO	GIA GENERALE			
	,		tica inguinale dx/sx - ()	IRURGIA DAY SURGERY				
			tica Funzionale - ORL E					
	17.00	50 Serropias 60	_	CH. CENYICO-FACUALE				
	17.00			- CHIRURGIA GENERALE				
EDIT		NOT ASSIGNED	6 HOURS	12 HOURS	24 HOURS			CLOSE
				Fia	188			

Fig 188

Each row corresponds to an operation (Fig 189).



The color of the row indicates the operation state and follows the color code used by all OranJ system modules (see paragraph 4.2 for the association between colors and operation state in OranJ).

The left part of every row contains the start time scheduled for the operation (Fig 189 A). The remainder of the row displays:

- the planned duration of the operation (Fig 189 B);
- the patient's name (Fig 189 C);
- the type of operation scheduled (Fig 189 D).

If specified, the hospital unit which requested the operation is also indicated.

If the left part is highlighted red (Fig 190), it means that the operation was indicated as "Emergency".



8.1.4. The "not assigned" area

The "Not assigned" operations are always visible on this module. Those are operations for which no start time, room or block have been scheduled (these operations are known as "reserves", see paragraph 4.3 for a description of these operations and the procedures connected to them).



Since we are working on a "Bedside" workstation, only the operations that could be scheduled for the current room will be displayed (that is: the emergencies, the room reserves, the block reserves and the general reserves - the reserves assigned to other blocks are not displayed).

Each row of this section shows the scheduled duration for the operation, the name of the patient, the type of operation scheduled and, if specified, the hospital unit which requested the operation (Fig 188 **B**).

All the rows of the "daily program" and "not assigned" pages can be clicked. Click a box to open the window shown in Fig 186, containing the operation main data.

8.1.5. How to edit the operation plan

It is possible to edit the operation plan.



To make any change it is necessary, first, to click the **Edit** button (Fig 191 **A**). When this button is clicked it appears as selected. To edit the page, it is necessary to

- Click the **Edit** button.
- Make the change required.

Once the change has been made the **Edit** button is automatically deselected. It is necessary to click it again to edit the page again.

When the **Edit** button is selected, the "drag and drop" functionalities are enabled.

The term "drag and drop" indicates the possibility to physically take one of the boxes corresponding to an operation, drag it to the point required on the time line and release it. Remember that the position of a box indicates the time scheduled for the corresponding operation, <u>so moving a box from one position to another on the time line means changing</u>

the time of the corresponding operation. The changes are automatically displayed on the other OranJ modules.



If you are working with a touch screen and there is no mouse, you can perform the same operation with fingers.

Likewise, it is possible to add an operation from the "not assigned" list to the daily schedule by dragging the corresponding box.

It is also possible to remove an operation from the daily schedule and add it to the "not assigned" list. To do so it is necessary to:

- Click the **Edit** button.
- On the list of scheduled operations (Fig 191 A), click the row corresponding to the operation you wish to remove.

The rectangle on the left turns to yellow (Fig 192)



The **Not Assigned** button on the command bar activates.

Click the **Not Assigned** button (Fig 191 **B**).

The operation is this way moved to the "not assigned" list.

Hence, you can use the **Edit** button on the on the main page of the Room Plan module to

- Change the time scheduled for an operation.
- Add one of the operations from the "not assigned" list to the daily schedule.
- Remove one of the operations from the daily schedule and add it to the "not assigned" list.

8.1.6. Room markers

The markers relating to the room events (Fig 193) are displayed and recorded in the column on the left side of the page (Fig 181 **B**).



Fig 193 – Room markers

These markers make it possible to record any occurrence which is considered significant and of which a record is required. It is possible to record the event and the time at which it occurred.

The number and nature of room events change according to the needs of the specific hospital and depend on the particular configuration of the system used. The procedures explained in this paragraph are only an example of configuration.

The room markers in this configuration are:

- Room opens
- Start of maintenance
- Start of cleaning
- End of cleaning
- End of maintenance
- Room closes

The markers are displayed on the left side of the screen as a sequence of boxes. The boxes are in chronological order.

The box relating to the marker initially appears in ocher yellow and does not contain any information on the moment (the time and day) in which the event took place. This means that the marker has not yet been recorded, the corresponding event has not yet occurred (Fig 194).



Fig 194 – First room marker

To record a marker, click/touch the corresponding box. The box turns to gray and records the time at which it was clicked. A new ocher yellow box (or several boxes, depending on the configuration) indicating no time is displayed below it. New boxes refer to subsequent markers (Fig 195).



Fig 195 – Second room marker

In general, to record a marker it is necessary to

Click/touch the corresponding box.

The system automatically records the time at which the operation is performed.

8.1.7. How to edit the room markers

To change the time of a marker after it has been recorded

> Click the box corresponding to the marker for which the time has to be changed.

A numeric keyboard is displayed (Fig 196).

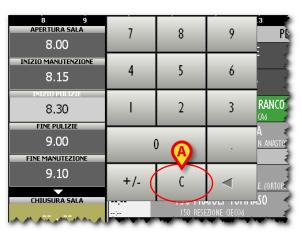


Fig 196 – Numeric keyboard

- > Enter the time required using the keyboard. To record the new time.
- Click the box corresponding to the event again.

The numeric keyboard disappears and the new time is displayed in the box. If the time entered is impossible, an error message is displayed.

To delete a marker recorded

> Click the box corresponding to the marker to be deleted.

A numeric keyboard is displayed (Fig 196).

Click the C button on the keyboard (Fig 196 A).

User confirmation is required.

Click **Yes** to delete the marker.

The deleting of an event implicates the deleting of all subsequent events.