

Oranj Operating Room and Anesthesia Journal

USER MANUAL

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1. The OranJ system

1.1. Introduction



For general and detailed information about the Digistat environment and the instruction for use of the "Control Bar" software see the document "Digistat Control Bar User Manual". The knowledge of this document is necessary for a correct and safe use of the Digistat OranJ software.

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: destined 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: destined 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: destined for use inside the operating room. It makes it possible to manage all the activities of the individual room.
- 4) CHECK IN: destined 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).

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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 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).

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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.

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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 86, is described in paragraph 2.1.

The boxes characterized by the *icon* (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	N¢
_		

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 search and selection tool will open. See the specific related documentation for descriptions and procedures.

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 ORAN
- 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).



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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 "Markers".

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.

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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).

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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						
736	Born on 26/01/19 , age y					
	Female, Weight kg					
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 + u					
lock a s d f	g h j k l ò à enter					
shift z x c v	b n m , shift					
ctrl win alt	ak gr menu					

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	PATIENT		ROOM
16.25	l (29γ) Dermolipectomie cuisse:		BH05 8
Entrée en Salle			RESIDUAL TIME
16.45		B	01.34
	NOTE	STAFF	
Remise au chirurgien Sortie de la Salle			
	DRUGS, EVENTS AND NOTES	MATERIALS AND RESOURCES	
	16:25 - Entrée au Bloc	1 - Base 2 - n°1	
	16:45 - Entrée en Salle	9 - INSTRUMENT	
		1 - Lac vasculaire maxi bleu	
		2 - Redon avec aiquille (H9	
	some the the second start and a second at the start at th		and the property of the

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 IDE	PATIENT IDENTIFICATION 🗇								
A	Patient Cod 2006	e								
							B	IDENTIFY		CANCEL
			2 3	4	5 6	7	8 9	0 '	I	back
	tab	q	w	e r	t	y u	i	o p	è 4	⊦ ù
	lock		a s	d	fg	h	j k	l ò	à	enter
	shift		z	X C	Y	b n	m ,	•	-	shift
	αrl	win	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							
	identity of patient							
A	B C							
Password								
	VENIT							
\ 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	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.

*T*o 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>
- \blacktriangleright 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),

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 28; 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.



Fig 25 – Adding an event

Every type of event is represented by a gray rectangle (Fig 26).



In this example 3 <u>types</u> of events are configured: notes, type of anesthesia and operating procedures (Fig 25 A).



Remember that the number and kind of events are customizable. The configuration described here is an example.

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

 \blacktriangleright Click the <u>type</u> of event required.

Every "type" of event can offer access to various sub-types. In the example shown in Fig 27, 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)

 \triangleright click the All button (Fig 27 C).

The elements on the list can be filtered using the index buttons on the left of the screen (Fig 27 A - See paragraph 1.4 for the explanation of how these buttons work).

EVENEMEN Tous les événer	nents A	NESTHESIE e de l'Anesthésie							
Ø			,	NO MORE SI					
ABC	Anesthésie	Générale							
DEF	Anesthésie Gérier. Anesthésie	Péridurale	9						
GH	Anesthésie	SubArach	noïde						
IJK	Anesthesie SubAr Anesthésie		9						
LM	Anesthésie Combi	née							
NOP									
QR									
STU									
VW									
XYZ									
ALL								ß	
C ALL		-						CLOSE	
	Fig 27 – Types of anesthesia								

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 28.

	Anesthésie S Anesthésie SubArachnoïd	ubArachn	oïde			1	P me 11.54	
A	Accéss Zone Aiguille Pointe History	Median A FC	Paramedian	Latéral		(
©	Notes				E <u>R</u> A/A		7 8 4 5 1 2	9 6 3
				INFO	KEYBOARD		+/- C	

Fig 28 – Event: subarachnoid anesthesia

The page makes it possible to specify, in detail, the type of anesthesia administered (Fig 28 A).

After entering the specific values, to record the new event

➢ Click the Ok button (Fig 28 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 28 B).

The system returns to the page shown in Fig 27 without making any changes.

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

click the Close button on the page (Fig 27 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 28) 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 28 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 29 **D**) to display a virtual keyboard on the screen (Fig 29).

Anesthésie Su Anesthésie SubArachnoïde	bArachnoïde		<mark>8</mark>	Time 11.54
Notes				
λ I 2 3	4 5 6 7 8	9 0 '	i back	
tab q w e	ertyu	i o p	è + ù	
lock a s	d f g h j	k I ð	à enter	
shift z x	c v b n	m , .	- shift	
ctrl win alt		alt gr		
		INFO	KEYBOARD	OK CANCEL

Fig 29 - 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 29 A).

The button makes it possible to change the color of the text.
The button makes it possible to align the text to the left.
The button makes it possible to center the text.
The button makes it possible to align the text to the right.
The button makes it possible to create bulleted lists.
The A button makes it possible to write in bold type.
The button makes it possible to write underlined.
The <i>A</i> button makes it possible to write in italics.
The button makes it possible to enlarge the character used.
The makes it possible to shrink the character used.

2.5.1.2. Information

The **D** button (Fig 29 **B**), like the **Info** button (Fig 29 **C**), makes it possible to access a page containing information on the event being added (Fig 30).



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

To exit the information page

Click the 10 button again or click the 11 button.

2.5.1.3. Time

The "Time" field (Fig 28 **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 28 **G**.

2.5.1.4. Picture

The white box on the right of the page (Fig 28 \mathbf{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 28 F) displays information on all the past recordings of the same event.

2.5.1.6. Numeric keyboard

The numeric keyboard (Fig 28 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,

on the "Events" page (Fig 24).

Click the event to be edited.

The line corresponding to the event appears highlighted (Fig 31).

EVENTS									
10:00 - Entrée au Bloc									
10:30 - Entrée en Salle									
10:50 - Remise au chirurgien									
11:00 - Anesthé	sie Généra	ile (Inhalation	n, Fermé)						
11:15 - Incision									
		ADD NEW	EDIT	DELETE		CHANGE	STOP	CLOSE	
Fig 31 – Event selected									

On the command bar

Click the Edit button (Fig 31 A).

This directly accesses the page that shows the details of the event selected (Fig 32).

Anesthés Anesthésie Génér	sie Générale					0	Time	11.00	
Type Circuit	Inhalation Ouvert Fe	TIVA ermé	TCI	Blend	ded				
History	11:00 - Anesthési	e Générale (Inhal	ation, Fermé)						
Notes			∷ ± .	111	А <u>А</u> <i>R</i>	▲A ▼a		I	
							7	8	9
							4	5	6
							1	2	з
)	·
							+/-	С	
				INFO	KEYBOARD			OK	CANCEL

Fig 32 – 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.

i

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 31).

Click the **Delete** button on the command bar (Fig 31 **B**).

User confirmation is required.

Click **Yes** to delete the event.

The deleted event disappears from the "Events" page (Fig 31) 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 34 A).



Fig 33 - OranJ Home

A virtual keyboard appears on the screen (Fig 34).

OPERATION N	OTES								\diamond	
Notes					A		111	E A	<u>A</u> A A VA	\triangleright
Test test test test n	ote									
							01/		CINCEL	
							UK		CANCEL	
	2	3	4	5 6	7	8 9	0 .	i	back	
tah	n		e r		v			<u> </u>		
	1	_لــــّــــــــــــــــــــــــــــــــ		البا		_ا_ن_ا_				
lock	a	s	d	f g	h	j k	l ò	å	enter	
shift		Z X	C	Y	b n	m ,	•	-	shift	
drl	win	alt				alt gr	menu			
						5.				

Fig 34 – Virtual keyboard

 \blacktriangleright 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 34 A) make it possible to use some of the most common text formatting functions.

The button makes it possible to change the color of the text.
The button makes it possible to align the text to the left.
The button makes it possible to center the text.
The 🗐 button makes it possible to align the text to the right.
The button makes it possible to create bulleted lists.
The A button makes it possible to write in bold type.
The button makes it possible to write underlined.
The <i>A</i> button makes it possible to write in italics.
The button makes it possible to enlarge the character used.
The \square makes it possible to shrink the character used.
The note is displayed in the "notes" area of the "OranJ Form" page (Fig 35).
NOTE Test test test note

Fig 35 - Note

2.7. The "patient" area

The "patient" area of the "OranJ Form" page (Fig 36 A) shows the name of the patient for whom the operation is scheduled.



Fig 36 - 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		
[у)	
Mammoplastie de reduction p	edicule inferieur:	
	Fig 37 – "Patient" Area	

The "patient" area makes it possible to access the "Patient and Operation Details" page (Fig 75).

To access the "Patient and Operation Details" page

 \triangleright 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 38 A) shows the block and the operating room scheduled for the operation.



Fig 38 - 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 40 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 79) or, if in use, on the Digistat "Smart Scheduler" system.



Fig 40 - OranJ Home

This quadrant works like a countdown. The example shown in Fig 41 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 42.



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 43).



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 44).



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 45).

01.00							
+ 0.10	- 0.10						
+ 1.00	- 1.00						
Fig	45						

Click one of the buttons.

This first click brings the counter back to zero.

> Click the buttons to indicate the time remaining.

The $\begin{array}{c} +0.10 \\ -0.10 \end{array}$ button adds 10 minutes to the scheduled duration. The $\begin{array}{c} -0.10 \\ +1.00 \end{array}$ button deducts 10 minutes from the scheduled duration. The $\begin{array}{c} +1.00 \\ -1.00 \end{array}$ button adds an hour to the scheduled duration. The $\begin{array}{c} -1.00 \\ -1.00 \end{array}$ 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 46 A) indicates the names and relative roles of the room staff assigned to the operation.



Fig 46 - 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 46 A).

The page shown in Fig 47 opens.

2.10.1. "Room Staff" page description

Ø			B					Ø)			0	
ROLE		PERS	ONNEL			OP	erati)N STA	NFF	_			
PLANNED	AB												
CADRE ALG RESP	CD												
INF SR	EF												
1er OP	GH												
2eme OP	IJ KL												
1er ASS OP	MN												
2eme ASS OP	OP												
OP ENSEIGNANT	QR												
STAG OP	21												
OP INVITE	WX												
MDALG RESP	YZ		C										
	ALL							F					
				¥		*		▼	¥				
			,					REMO)YE	QUIT /	ALL	CLOSE	
			Fi	ig 47	$-\mathbf{R}$	oom	stat	f					

The "Room Staff" page (Fig 47) is formed of four columns.

The "role" column (Fig 47 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 47 \mathbf{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 47 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 47 \mathbf{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 47 \mathbf{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 47 \mathbf{F}) make it possible to scroll up and down the list of names displayed.





The **Close** button (Fig 48 **C**) closes the page. Click **Close** to return to the "OranJ Form" page (Fig 46).

The **Quit All** button (Fig 48 **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 48 **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 47 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 49).

ROLE		PERSONNEL	OPERAT	ION STAFF		
PLANNED	AB	· · · · · ·				
CADRE ALG RESP	CD	· ·				
INF SR	EF	· · · · · · · · · ·				
1er OP	<u>и</u> П	• • • • •				
2eme OP	KL					
1er ASS OP	MN					
2eme ASS OP	OP	···· · • ·				
OP ENSEIGNANT	QR	···· · - ·				
STAG OP	31 IIV	···· -·· -·· -				
OP INVITE	WX	- · ·				
MDALG RESP	YZ	· · · · · · · · ·				
MDALG ENS_ANT	ALL					
				REMOVE	QUIT ALL	CLOSE
		E! 10	T • 4 P			•

Fig 49 – 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 50). The name of the person selected is marked by the color that characterizes his/her function.

ROLE		PERSONNEL	OPERATION STAFF			
PLANNED	AB	· · · · · · · · · · · · · · · · · · ·	····· ··· ··· ···			
CADRE ALG RESP	CD	• •				
INF SR	EF	• • • • • • • •				
1er OP		•••••••				
2eme OP	KL					B
1er ASS OP	MN				P_IN	
2eme ASS OP	OP	···· · • · ···· ·		P	_OUT	
OP ENSEIGNANT	QR	···· ~··			7 8	9
STAG OP	- 51 - 11V	· · ·			4 5	6
op invite	WX	· · ·			1 2	3
MDALG RESP	YZ				0	
MDALG ENS ANT	ALL			1 4	./ (
			± ▲ ▼ ₹		7- U	
			REMOVE	QUIT ALL	CLOSE	_
		Fig 50 –	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 50 A).

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

The small clocks \square highlighted in Fig 50 **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 51).

STAFF	
1er OP:	
1er ASS OP:	
INF ALG:	
INSTRUM.1:	

Fig 51 – 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 52).



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 50 **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 50 C).

Click the **Remove** button.

User confirmation is required.

➢ Click Yes to confirm.

2.11. The "materials and resources" area

NUE STAFE

The "materials and resources" area (Fig 53 A) contains the list of all the resources and materials used during an operation

Fig 53 - 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 55).

i

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.

		RESOURCE	S USED			
_		EDIT	UCED			CL OFF
	AUU NEWY	EDII	UTED	PLANNED		CL03E

Fig 54 – "Resources Used" 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 NU Serial Number				OK		♦ CANCEL
I I I I I I I I I I I I I I I I I I I	2 3	4 5 é	5 7 8 y u	9 0	• i	back + ù
lock	a s	d f	g h j		ò à	enter
ctrl win	alt			alt gr menu		

Fig 55

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

or

Enter the resource's "Serial Number" (Fig 55 A), then click the Ok button (Fig 55 B).



(

The window shown in Fig 55 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 56 A).

			RESOURCE	ES USED					
A	Agrafeuse circula Agrafeuse circulaire 21 m	ire 21 mm b mblanche	lanche	-	Trolley	<mark>1</mark> 0			
							7	8	9
							4	5	6
							1	2	3
							()	
		Ç					+/ <mark>B</mark>	С	<
		ADD NEW	EDIT	USED	PLANNED		UK		CANCEL

Fig 56 – Resource used

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

To complete the procedure

 \triangleright click the **Ok** button on the command bar (Fig 56 **B**).

The recorded resource's name and quantity is displayed in the "materials and resources" area of the "OranJ Form" page (Fig 57 A).

Entrée au	Bloc PAT	IENT							R	DOM
09.0 30/01/20	9 · •8 LAP	AROTOMIE EXF	(66y) PLORATRICE: [a	aparo explo +,	/- réserction	intestin g + éc	hographie du i	foie	BH	105 1
09.4 30/01/20	5 8 8	-opératoire (aj	opareil CHGV)	+/- PBF				С	OMPLET	ED IN 03.29
Remise au ch	irurgien NOTI					STAFF				
10.1 30/01/20	5 Rés	ection intestin	ale. Sonde ur	inaire		1er OP: 11 1er ASS OP:				
10.3 30/01/20	7					Zeme ASS OP: MDALG RESP:	· · · · · ·			<u> </u>
Fin d'interv	ention									\sim
13.0	7 👦	CS EVENTS AND NO	TES				500.65		_	v
30/01/20	⁰⁸ Ent	ráo au Rior	1123		l.	- INSTRUMEN	T			
Sortie de la	Salle					1	017			
13.1	5 5	lee en salle				I - Laparotomi	211-13			
30/01/20	ов Кег	nise au chirurg	ien			1 - Nettoyeur d	l'électrode de	bistouri		
Entrée salle d	le réveil 🛛 🛛 🗠	sion				1 - Ultrasons - S	Sonde en T n°C	2		
13.2 30/01/20	1 Fin	d'intervention				1 - Suture-Boo	ts jaunes			
Sortie du	Bloc 501	tie de la Salle				1 - Aspiration n	noyenne			
15.3	9 Ent	rée salle de ré [,]	veil			1 - Resection n	°6			
30/01/20	⁰⁸ Sor	tie du Bloc				1 - Champ d'iso	lation à annea	u Vi-Dra	pe 23 c	m /
						2 - Lar vasrulai	ra Sunar hlau	mavi		
						1 Aiguilla à hi	ancia Tru Cut			
						i - Alguille a Di	opsie mu-cut			
NOTE	ANESTLESIE									NEW DEC
NOTE	ANUSTRESIE	COTIL: PEROF								NEW RES.
		Fig 57								

2.11.1. Manual procedure

To manually record a resource

- > click the "Materials and Resources" area. The "Resources Used Screen" opens (Fig 56).
- Click the Add New button on the command bar (Fig 56 C). A page listing the available resources opens (Fig 58).

	MATERIAUX											
	PLATEAL	JX CEC										
	ABC	Adaptateur pour seringue										
	DEF	Adaptateur pour système de perfusion										
	GH	Agrafeuse à peau										
	IJK	ng anazara a presu Agrafeuse circulaire 21 mm blanche										
6	LM	Agranesse circulaire 21 mm biaiche Agranesse circulaire 21 mm noire										
e	NOP	Agrafeuse circulaire 25 mm noire										
	QR	Agrafeuse circulaire 29 mm noire										
	STU	Agrateuse circulare 29 mm nore Agrafeuse circulaire 33 mm noire										
	W	Agrafeuse circulare 33 mm noire Agrafeuse circulaire EEA 21 mm										
	XYZ	Agrafeuse circulare EEA 21 mm Agrafeuse circulaire EEA 21 mm - Enclume Orvil										
	ALL											
	ALL	CLOSE										

Fig 58 – List of Resources

In the example shown in Fig 58 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 58 A.

The buttons containing the letters of the alphabet (Fig 58 **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 59).

"Serial Number" request depends on a configuration parameter. SERIAL NU Serial Number CANCEL 1 2 3 4 5 6 7 8 0 ì back 1 tab u ù d f enter lock a s g h k Т à shift c m shift n alt gr ctrl win ah men

Fig 59

Enter the resource's "Serial Number" manually (Fig 59 A) and then click the Ok button (Fig 59 B).

The system automatically adds the selected resource to the list of resources used (Fig 60).

RESOURCES USED					
Agrafeuse circulaire 21 mm blanche Agrafeuse circulaire 21 mm blanche	Trolley	<u>1</u> 0			
			7	8	9
			4	5	6
					-
			1	2	3
			C)	
			+/-	С	
			.,		
ADD NEW EDIT USED	PLANNED		OK		CANCEL

Fig 60 – Resource added

2.12. "Resources Used" screen description

On the "Resources used" screen (Fig 60) the resource is displayed on one line (Fig 61). Every line contains a variety of information.

Agrafeuse circulaire 21 mm blanche	Trolley	V
ngi dicase circalare ex min statene		

Fig 61 – Information on the Resource

- The name of the resource is indicated on the left side (Fig 61 A).
- The **Trolley** button (Fig 61 **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 61 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 62). The operation of the virtual keyboard is described in detail in paragraph 2.6.

Agrafeuse circulaire	21 mm blanche	2	6
Agrateuse circulaire 21 mm blanche			
Notes		📑 🗄 🗄 🗄	IEAAAA
Test note, Test note, test note			
\ I 2 3	1 5 6 7	8 9 0 '	ì back
tab q w e	r t y	u i o p	è + ù
lock a s	i f g h	j k l ò	à enter
shift z x	c y b	n m , .	- shift
ctrl win alt		alt gr menu	
		INFO	OK CANCEL

Fig 62 – Add note to the resource

To save the notes added

Click the **Ok** button (Fig 62) on the command bar.

When there is a note referring to one of the resources entered in the list of "resources used", the button (Fig 61 C) appears highlighted in yellow.

• Box [Fig 61 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 60 A, Fig 63).

7	8	9
4	5	6
1	2	3
0)	
+/-	С	

Fig 63 – Numeric Keyboard

To specify the quantity of resources

Click the Edit button (Fig 60 B).

Click box 1.

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.

• Box (Fig 61 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 64).



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 64 – 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 64).

The page shown in Fig 60 ("Resources Used") opens.

The names of resources entered previously are flanked by the square (Fig 65).

If there are notes, the square is yellow \checkmark (Fig 65).

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
an an ain, an an ain, ain ann an an ann an ann ann ann ann an	

Fig 65

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 66 A).

		RESOURCES USED	
	Agrafeuse à peau		0
	Gel Adcon 1 g		0
	10.11 - ADM		1
4	7.53 - ADM Test Note		-1
	A.M.O Monotube - Hoffmann A.M.O Monotube - Hoffmann n°2	n°2	1
			Alexandra.

Fig 66 – 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 60)
- Click the Edit button (Fig 60 B)
- > Click the button placed near the resource you want to remove.

The corresponding line will change as in Fig 67.

> Click the button (Fig 67 A).

USR ENG OranJ

➢ 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.

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



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 64).

The page shown in Fig 68 opens. The **Edit** button is enabled.



	RESOURCE	s USED					
Agrafeuse à peau Agrafeuse à peau			Trolley	0			
Gel Adcon 1 g		-	Trolley	0			
A.M.O Monotube - Ho A.M.O Monotube - Hoffmann n°2	ffmann n°2	•	Trolley	1			
					7	0	0
						0	9
					4	5	6
					1	2	3
						\	
					(, 	•
	A				+/-	С	
ADD N	IEW EDIT	USED	PLANNED		OK		CANCEL
	T ! ((

Fig 68 – Change Quantity

Click the **Edit** button on the command bar (Fig 68 A).

Boxes which make it possible to program the quantity appear alongside every resource (Fig 68 B).

- Click the box corresponding to the resource you want to edit.
- ➤ Use the numeric keyboard (Fig 68 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 64).

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 69 A).

Entrée au	Bloc	PATIENT							ROOM
09.0 30/01/20	9	LAPAROTOMIE EXP	(66y) PLORATRICE: la	iparo explo +/	'- réserction	n intestin g + écl	hographie du f	foie E	3H05 1
Entrée en	Salle	per-opératoire (ar	opareil CHGV)	+/- PBF				RESI	DUAL TIME
09.4	.5 ®							COMPL	ETED IN 03.29
Remise au ch	nirurgien	NOTE				STAFF		1	
10.1 30/01/20	5 ®	Résection intestin	ale. Sonde uri	inaire		1er OP: 1 1er ASS OP:			
	n -7					20mo ASS 0P.			
10.3	/					MOALC DECD			
Ein d'interv	ention					MUALG RESE: .			∇
13.0	7	DDUCE EVENTS AND NO	TEC	_		MUALGENS AP	NI:		Ý
30/01/20	08	Entrán au Bloc	1115			2 - INSTRUMEN	T		
Sortie de la	a Salle						1 n 0 1 7		
13.1	5						2) {		
30/01/20	08	kemise au chirurg	ien			I - Nettoyeur c	relectrode de	DISTOURI	
Entree salle o	le reveil	Incision				1 - Ultrasons - S	sonde en l'n°;	2	
13.2	. L	Fin d'intervention				1 - Suture-Boot	ts jaunes		
Sortie du	Bloc	Sortie de la Salle				1 - Aspiration n	novenne		
15.3	9	Entrée salle de rév	veil			1 - Resection n	°6		
30/01/20	108	Sortie du Bloc				1 - Champ d'iso	lation à annea	u Vi-Drane 23	cm
						2 - Lac vacculai	ra Supar blau i	mavi	- cini
							ne super vieu i		
						I - Alguille a Di	opsie mu-cut		
NOTE	ANE STHE	SIE COMP. PEROP		_					NEW RES.
				Fig	69				

The "Resources Used" screen will open (Fig 70).

		RESOURC	ES USED				
INSTRUMENT CX08012901532 - Instrume	nts séparés					1	
Laparotomie n°13 (X08012801592 - Laparoto	mie n°13					1	
Nettoyeur d'électro	ode de bisto trode de bistouri	ouri				1	
Ultrasons - Sonde	en Tn°2 - Sonde en Tn°	2				1	
INSTRUMENT CX08012801581 - Instrume	nts séparés					1	
Suture-Boots jaune 20120727 - Suture-Boots ja	es sunes					1	
Aspiration moyenn 07J114E - Aspiration moyer	e					1	
INSTRUMENT	nts séparés					1	
Resection n°6	nn°6					1	
INSTRUMENT	nts séparés					1	
INSTRUMENT	nts séparés					1	
Champ d'isolation	à anneau V	i-Drape 23	cm			1	
INSTRUMENT	nts séparés					1	
INSTRUMENT	nts séparés					1	
Lac vasculaire Sup	er bleu ma	xi				2	
INSTRUMENT CX08012901530 - Instrume	nts séparés					1	
Aiguille à biopsie T	ru-Cut					1	
Inguine a biop				1			
	ADD NEW	EDIT	USE D	PLANNED	_		CL02E

Fig 70

Click the **Menu** button on the upper left corner of the "Control Bar" (Fig 71 A).

A				ν U	,
	Choose patient		GENERAL CENTRAL	() 17:16 21 NOV 2017	?

Fig 71

The following menu is displayed (Fig 72 A).

	MAIN	MENU		×
(曝	CLINICAL CONFIGURATION	තු	SYSTEM CONFIGURATION
	×	SYSTEM ADMINISTRATION	Ģ	MODULES CONFIGURATION
		PATIENT REPORTS		SYSTEM REPORTS
	iiiii	STATISTICS	Þ	CHANGE PASSWORD
	\bigcirc	QUIT	ĩ	ABOUT
	\times	(CLOSE	
L		Fi	g 72	

Click the Clinical Configuration button (Fig 72 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 73 A).

				(A)							
		\subset	SELECT TH	HE DESTINATION	ON OPERATI	ION					
AB	PLANNED		READY			IN PROGRESS			COMPLETE	Ð	
C	= 13 FACETTECTOMIE CER BH05 12:00	RVICALE 11 BHO 134	RESECTION WEDGE	METASTASE -I	13 ELECTE BH05 18.05	ROCOAGULATION	i lesion co	11 AB BH05 15.00	LATION BROCH	E CLAVICI	JLE SA
DE	8 NEPHRECTOMIE (DR	COITE) (55.51) 4	ABLATION BROCHE	HUMERUS SA	2 THRO	MBENDARTERECT	IOMIE CAR	6 AB	LATION BROCH	E CAGE TH	HORA
F	6 BANDING ARTERE F	PULMONAIRE	FIXATEUR EXTERNE	FEMUR (GAU	4 LYSE A	ADHERENCES INT	RALUMINA	18.00			
G	13.00 11 GASTRECTOMIE TOT BH05	TALE (43.99)	FURMATION		15.00						
HI	14.00										
J											
KL											
Μ											
N											
OP											
Q											
RS											
T											
U											
VW											
X											
YZ											
ALL											
BH	105 OTHER	NONE	RESERVES		TODAY				CLOS	E	
				Fig 7.	3						

> 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 Digistat 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 74 A).



Fig 74 - OranJ Home

The "Patient and Operation Details" screen opens (Fig 75).

PATIENT	OPERATION	OTHER OPERATIONS		
FAMILY NAME		GIVEN NAME	BIRTHDATE	
2009			FEMALE 16/09/	(Brid
WEIGHT HEIGHT				
Traumi - esiti frattura -	- rimozione placca (120 mi	n.)		
PIOCCO Obelatollo 2919	5 - 20/01/2010 14.15			
Т		NEW OPERATION	CANCEL OPERATION	CLOSE

Fig 75 - Patient and operation details

This screen includes three "tabs" (Fig 75 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 76) contains the patient's main data.

To access this screen,

click the "Patient" tab (Fig 76 A).

A	PATIENT	OPERATION	OTHER OPERATIONS	
	FAMILY NAME		GIVEN NAME	INITIALS
	10000		StolEt4.	
	PATIENT CODE		SEX BIRTH DATE	AGE
	2009		MALE FEMALE 16/09/	204
	NOTES			
	WEIGHT HEIGHT			
	6			
		- 10		
/	Traumi - esiti frattura	rimozione placca (120 mi	n.)	
$\left(\right)$	Blocco Operatorio Sala 3	3 - 20/01/2010 14 15		
	biocco operatorio sala .	20/01/2010 14.15		

Fig 76 - 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 76 \mathbf{B}).

To specify new data or to modify the existing ones

click the Edit button on the command bar (Fig 77).



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 78).



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 79 A).

PATIENT	OPERATION	OTHER OPERAT	IONS			
04444 (347) (346) (346)						
<mark>ж орегатіон</mark> Traumi - esiti frattura -	rimozione placca				ESERVATION CODE	
DESCRIPTION						
SECONDARY OPERATIONS						Δ
						\square
esiti odteosintesi gomi	io sn			EMERGENCY LEVEL ELECTIVE	URGENZA	EMERGENZA
DATE TIME 20/01/2010 14.15	PRE TIME 30	<u>* surgic</u> al time 120	BOST TIME	PRIORITY		
PLANNED BLOCK Blocco Operatorio	PLANNED ROOM Sala 3				ACTUAL ROOM	
ORTOPEDIA E TRAUMAT	OLOGIA u anes:	THESIA	ORTOPEDIA E T	RAUMATOLOGIA		
YES NO	YES NO Y	YES NO				

Fig 79 - Operation data

The information required is signaled by the \mathbb{K} 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 SCHEDULED, ready - READY, in progress - IN PROGRESS or completed COMPLETED IN 06.09

To specify new data or to modify the existing ones

click the Edit button on the command bar (Fig 80).



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 81).

CANCEL	UPDATE
Fig	81

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 volume 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 $\boxed{\begin{array}{c}\begin{a$

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 82 A).

The following screen opens.

	PATIENT	OPERATION	OTHER OPERATIONS	OTHER INFORMATIONS
Γ	OTHER NAME AND A DOCUMENT			
B	AMO TIBIA (GAUCHE) (78.67 BH05 7 - 08/10/2009 8.10) (90 min.)		
C	22/10/2008 BH057 05/09/2008 BH053	89270.0 DEBRIDEA 68120.0 REDUCT.0	MENT CHIRURGICAL SOUS UVERTE ET OSTEOS.DE LA	CUTANE M.I. DIAPH.TIB.

Fig 82 - Other operations

The name of the patient and the selected operation main data are an the top-left corner of the screen (Fig 82 **B**).

The different operations are displayed in chronological order, most recent on top (Fig 82 C).

05/11/2007 BH052 FERMETURE DE PROCTOSTOMIE:

Fig 83

Each line corresponds to an operation (Fig 83).

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.

PATIENT	OPERATION	OTHER OPERATIONS	OTHER INFO	RMATIONS
ILEOSTOMIE DE PROTECTION	(90 min.)			
BH05 5 - 10/06/2008 22.38	3			
22/01/2008 BH0515 05/11/2007 BH052 01/10/2007 BH052	ILEOSTOMIE DE PR FERMETURE DE PR PROCTECTOMIE CO	OTECTION: OCTOSTOMIE: MPLETE: AUTRE INTERVEN	ITION HORS LI	Admin operation: ILEOSTOMIE DE PROTECTION Patient Code: 2572707 Requesting hoopstal unit: CHV Planned date: 22/01/2008 ge4eral til2e (90 min min.) Planned duration: 90 min (55) Room-fr: Llova 22/01/2008 (144 min min.) Final Duration: 144 min Proposed anesthesia: Anesthesis einfrade Position on table: Do Setup time: 15 min Cleanup time: 15 min Clea

Fig 84

The **Select** button (Fig 84 **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,

i

The info window shown in Fig 84 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 85).

	PATIENT	OPERATION	OTHER OPERATIONS	OTHER INFORMATIONS	
	OURIG NOCUSING				
B	AMO TIBIA (GAUCHE) (78	.67) (90 min.)			
Ļ	BH05 7 - 08/10/2009 8.1	10			
C					

Fig 85

To access this screen

click the "Other informations" tab indicated in Fig 85 A.

The patient and operation main data are displayed on the top left corner of the page (Fig 85 B).

The additional information is displayed in the area indicated in Fig 85 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 86 - See paragraph 2.1 for a detailed description of this screen).

	PATIENT	100				_	_		ROOM
									RESIDUAL TIME
	NOTE				STAF	F			
	DRUGS, EVEN	IS AND NOTES	_	_	MATI	RIALS AND RESOURCE	5	_	
5101110		C L L C L L	ANDOTEC	000000000		0.000.000	11075		10000
FARMACI	INFUSIONI	SANGUE	ANESTESIA	PROCEDURE	COMPLICANZE	CHIRURGIA	NOTE		NEW RES.
			T.	1~ 0(O					

Fig 86 – OranJ Home

Click the "patient" area (Fig 86 A).

The "Patient and Operation detail" screen opens (Fig 87).

PATIENT	OPERATION	OTHER OPERATIONS		
FAMILY NAME		GIVEN NAME		INITIALS
Market In		8.201		
PATIENT CODE		SEX	BIRTH DATE	AGE
1,736341		MALE	FEMALE	100
NOTES				
				_
WEIGHT HEIGHT				
		A		
		NEW OPERATION	CANCEL OPERATION	CLOSE
		Fig 87		

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 88).

	PATIENT * OPERATION	* OPERATION								
	GADSDEN FELTRE (72y)									
	* OPERATION									
	DESCRIPTION									
	SECONDARY OPERATIONS			\triangle						
				\bigtriangledown						
	REASON FOR OPERATION		TIVE URGENZA	EMERGENZA						
		15								
	PLANNED BLOCK	ACTUAL BLOCK	ACTUAL ROOM							
	HOSPITAL UNIT REQUESTING	HOSPITAL UNIT HOSPITALIZAT	ION	_						
	PLCOD YES NO YES NO YES NO STATE PLANNED	SPECIAL REQUESTS								
EDIT	NEV	V OPERATION	CANCEL OPERATION	CANCEL	UPDATE					

Fig 88 – New operation data specification

Specify the operation details (operation name and planned duration - indicated in Fig 88 - are required)

Where the 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 88 A) opens a list of possible operations from which to choose (Fig 89).

- Use the arrows on the right of the list (Fig 89 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.

PATIENT		OTHER OPERATIONS				
	OFERATION					
* OPERATION				RESERVATION CODE	<u> </u>	
Ablazione endometria	le					
Addominoplastica				1		
Adenoidectomia						
ADENOMECTOMIA TRA	NSVESCICALE					
Adenotonsillectomia b	ambini					
ADVANCE						
ALCOLIZZAZIONE CISTI	RENALE				\sim	
Altra asportazione neo	oformazione di cute o sott	locute		LIRGENZA	EMERGENZA	
Altra colecistectomia				OKGENZA		
Altra ernioplatica						
Altra mastectomia	colo			ACTUAL ROOM		
Altra plastica di laparo	cele					
Altri interventi sull'ad	domo					
Altro intervento della	regione cervicale					
Altro intervento proct	ologico					
Altro intervento sul co	lon					
TLAIVINED			¥	,		
					_	
						В
		NEW OPERATION	CANCE		CANCEL	LIPDAT
		HEIT OF ERATION	CAINCE	L OF LIGHTON	Chintel	01 DAI

Fig 89

After entering all the data

Click the **Update** button to save the data entered (Fig 89 **B**, Fig 90).

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 89 B, Fig 90).



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 91).

PATIENT								ROOM	
Ingresso Blocco	50		100						BLO Sala 2
🔼	Ernioplasti	ca inguinale bilate	erale (D.S.)						510 500 2
	ERNIA ING	UINALE BILATERAL	.E						RESIDUAL TIME
	NOTE				STAFF				
	DRUGS, EVENT	IS AND NOTES			MATER	RIALS AND RESOURCE	5		
FARMACI	INFUSIONI	SANGUE	ANESTESIA	PROCEDURE	COMPLICANZE	CHIRURGIA	NOTE		NEW RES.
				. 01 0					

Fig 91 - OranJ Home

Click the "Patient" area (Fig 91 A).

The "Patient and Operation details" screen opens (Fig 92).

	PATIENT	0	PERATION	OTHER	OPERATIONS						
	FAMILY NAME				GIVEN NAME				I	NITIALS	
	and the second	10.21			145.0						
	PATIENT CODE				SEX			BIRTH DATE	I	IGE	
	1,000,000				MALE	FE/	AALE 📄	12,2,200		6¥	
	NOTES										
Ĩ	WEIGHT	HEIGHT									
Ē	Ernioplastica in	guinale bilaterale	e (D.S.) (25 min.)								
6	Blocco Operato	rio Sala 2 - 21/04	4/2010 10.10								
								A			
					NEW OPERATION		CANC	EL OPERATION		(LOSE
					Fig 92						
					-						

click the Cancel Operation button on the command bar (Fig 92 B)

User confirmation is required (Fig 93).

	CANCEL OPERATION	\diamond
	REASON FOR CANCELLATION	
A	Operation cancelled	<u> </u>
	B	
	CANCEL OPERATION CLOSE	

Fig 93 – Operation cancellation

The cancellation reason can be here specified.

- Specify the cancellation reason (Fig 93 A)
- Click the red Cancel Operation button (Fig 93 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 nov	"Cancelled"	(Fig 94 A).
---------------	--------------	-------------	---------------------

PATIENT	OPERATION OTHER OPERA	TIONS						
ISANG ASIG MINE SURG	TAKIN AND ADDR. MARK (AN)							
* OPERATION			RESERVATION CODE					
Ernioplastica inguinale bilatera	ile (D.S.)							
SECONDARY OPERATIONS								
				∇				
		EMERGENCY LEVEL		NI7A				
PATETIMEPR		POST TIME PRIORITY						
21/04/2010 10.10	15 25	15 C						
PLANNED BLOCK Blocco Operatorio	PLANNED ROOM Sala 2	ACTUAL BLOCK	ACTUAL ROOM					
HOSPITAL UNIT REQUESTING		HOSPITAL UNIT HOSPITALIZATION						
		SPECIAL REQUESTS						
	REASON FOR CANCELLATION							
		<u> </u>						
EDIT	NEW (PERATION CANCE	LOPERATION	CLOSE				
	T: 04 C							

Fig 94 - 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 - On the Digistat lateral bar.

The "OranJ Plan" module screen opens. Fig 95 shows an example. The screen shows the state and the trends of the actual operations on a block in the current day.

						NOT ASSIGNED
7			14 15	16	17 18 19	REDUCTION FERMEE ET OSTEC
2	MENISCECTON PL	STIE DU LIGAM REDUCTI	ON_EER ME I			Résection crico-trachéale (Pe
3		ARTHROPLASTIE TOTALE (ENOU (DR			CORRECTION CICATRICE (86.84
4						BH05 CHV
5	FISTULE ARTERIO					
6		CIRCONCISII CURE HYDROI				
7						
8	AMMOPLASTIE BILATERALE	MAMMOPLASTIE BILATER	ALI			
9		PLASTIE OU REMPLACEME	NT VALVE AORT /	ABLATION PONT	AGE ILIO-FEMOR	
10	LOBECTOMIE SUPERI	URE THORAC WEDGE RESE	CTION THORACO			
11		CRANIOTOMIE				
12						
13		AUTRE EXCISITEXERESE CH	DLESTEATOME TEC			
1 4			RESECTION RECT	UM (48.6)		
15						
16						
10	GREEFE F OST	ENTOMIE LEENRT 1 (76.66)				
10						
C 21						
<u> </u>		POSE PORT-A-				
FXT		R				
7	8 9 10	<u>11 12 13</u>	14 15	16	17 18 19	
EDIT	BH05	12:00	TO	DAY		BLOC

Fig 95 - 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 96 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 95 and Fig 97 show some examples.



The hours are indicated on top and bottom of the screen (Fig 96 B).

The yellow bar shown in Fig 96 C indicates the current time. In Fig 96 it is about 13:20. The bar runs as time goes by.

Possible yellow letters placed near the room box (Fig 98) indicate the devices that are in the room. The relation between a letter and a device is set by configuration.



The rectangles displayed on screen represent the various operations (Fig 99).



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 95 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 99, 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 99 **A** is 90 minutes (from 14:30 to 15:00); the planned duration of the operation indicated in Fig 99 **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 100).



The lighter part on the left (Fig 100 A) represents the pre-surgical time; the darker part in the middle (Fig 100 B) represents the surgical time; the lighter part on the right represents the post-surgical time (Fig 100 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 101 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 101).



Fig 101 - "Planned" operation

• Ready – the patient has undergone block check-in. Green color indicates the "Ready" state (Fig 102).



Fig 102 - "Ready" operation

• In Progress – the patient has entered the operating room. Cyan indicates the "In progress" state (Fig 103).



Fig 103 - "In progress" operation

• Completed – the operation has been completed; the patient is out of the operating room. Dark gray indicates the "Completed" state (Fig 104).



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 103; 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 105, 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 106).



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 106. In the figure here displayed the three yellow bars indicate

- 1) a 12 minutes delay in the pre surgical planned duration (Fig 106 A);
- 2) a 40 minutes delay in the surgical planned duration (Fig 106 B);
- 3) a 21 minutes delay in the post surgical planned duration (Fig 106 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 79 - 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 107). The small box indicated in Fig 107 A specifies the emergency level. In the configuration here described there are three possible emergency levels.



rig iv/ - Emergency

Every operation box can be clicked. Click one of the boxes to open a window (Fig 108) containing the main data of the operation.



Fig 108 – Operation details

Click the **Select** button in the window (Fig 108 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 109) 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.

NOTE: 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 110									





This button makes it possible to display the plan of a different block. This button is only active if working on a "General Central" station. See paragraph 4.2.2.



This button makes it possible to display a different time span. See paragraph 4.2.3.



This button makes it possible to display the plan of a different day. 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.

BLOC

This button is a filter for the operations in the "not assigned" area. If selected, only the operations of the currently selected block are 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 111).

(EDIT	вно5		12:00		TODAY			BLOC	
	\smile	Fig 111								

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 112 (the button displays the name/code of the block currently displayed).



A list of all the blocks configured in the OranJ system opens (Fig 113).



Fig 113 – Block selection

> 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 114 - the button displays the time range currently selected).

EDIT	BH05		12:00		TODAY	•	BLOC	
Fig 114								

A drop-down menu offering three different options (6:00 - 12:00 - 24:00) opens (Fig 115).



Fig 115 – 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 116) on the command bar makes it possible to change the date displayed.



To do that

Click the **Today** button.

A calendar window (current month) opens (Fig 117).



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 117 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 117 **B**).

To close the calendar window

Click the **Close** button on the calendar (Fig 117 **C**).

4.3. The "not assigned" area

The "Not assigned" area on the right of the "OranJ Plan" screen (Fig 118 A, Fig 119), contains operations which have not been assigned a block, room or time.

		NOT ASSIGNED
1		11 12 13 14 15 16 17 18 19 REDUCTION FERMEE ET OSTEO.
2	MENISCECTON PL	STIE DU LIGAM REDUCTION EERME
3		ARTHROPLASTIE TOTALE GENOU (DRI
4		
5	FISTULE ARTERIO	
6		
7		
8	MAMMOPLASTIE BILATERALE	MAMMOPLASTIE BILATERALI
9		PLASTIE OU REMPLACEMENT VALVE AORT ABLATION PONTAGE ILIO-FEMOR.
10	LOBECTOMIE SUPER	
11		CRANIOTOMIE
12		
13		AUTRE EXCISI EXERESE CHOLESTEATOME TECHNI
1 4		PROCTECTOMIE PARTIELLE RESECTION RECTUM (48.6)
15		
16		
17		
18	GREFFE F US	
19		
21		
23		
EXT	7 8 9 10	
EDI	T BH05	12.00 TODAY BLOC
		Fig 118

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 119 – "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.

In the Digistat systems, these operations are called <u>Reserves.</u>

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 120 A specifies the emergency level.



The **Block** button on the command bar (Fig 118 **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 121).



Fig 121 - 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 122, 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".



Fig 122

The operation boxes that appear in the not assigned area in the way indicated in Fig 123 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 124).



4.4.1. Scheduling the single room

Click one of the boxes indicated in Fig 124 to access a page showing information relating to the daily schedule of the single room (Fig 125).

	8 8 8 8 8	9 1 1 1 4 1 1 1 9	ADENOMECTOMIA UROLOGIA		13 inclusione denti IDDN10IATRIAST 13	14 Ernioplastica inc CHIRURGIA DAY S	15 16 Estrazioni denti inc ODUNTOIATRIASTO 15 16	17 17	18 	19 20 19 20
(08.00	13.40	60	1.000		DAILY PROGR	KAM			
	INIZIO MANUTEN	210NE 3.4() 60 ADENOME	ctonia transvescicale - U	ROLOGIA					
	08.10	12.15	45 45 Disinclusi	pne denti inclusi - ODONTOI	ATRIA-STOMATOLOGIA					
	08.20	13.40	30	ica inguinale do/sx - (HIRU)	RGIA DAY SURGERY					
B	FINE PULIZI	14.50	40	denti inclusi - ODONTOIAT	IRIA-STOMATOLOGIA					
	FINE MANUTEZI	IONE		- sente menusi ODONTOIA		NOT ASSIGN	ED			
	09.00		30 30 Plastica e	mia ombelicale - CHIRU <u>RG</u> IA	I PLASTICA					
	CHIUSURA SA	LA 17.00	40	1 Farger		CENEDALE				
			40 Asportazi 30	one heoformazione cutanea	+ innesto - CHIKURGIA	A GENERALE				
			30 Ernioplas	tica inguinale dx/sx - CHIRUI	RGIA DAY SURGERY					
		, ,	50 Settoplast	ica Funzionale - ORL E <u>CH</u> .C	ERVICO-FACCIALE					
		17.00	60 0 Radicalizz	azione melanoma + LS - C	HIRURGIA GENERALE					
	EDIT		NOT ASSIGNED	6 HOURS	12 HOURS	24 HOURS			CLO	SE
				Fi	g 125 – F	Room Pla	in			

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 125 A, Fig 126).



The box on the left (Fig 126 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 127) 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 126 **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 126 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 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 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 128).





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 128. In the figure here displayed the three yellow bars indicate

- 1) a 5 minutes delay in the pre surgical planned duration (Fig 128 A);
- 2) a 15 minutes delay in the surgical planned duration (Fig 128 **B**);
- 3) a 10 minutes delay in the post surgical planned duration (Fig 128 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

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 129). The small box indicated in Fig 129 A specifies the emergency level. In the configuration here described there are three possible emergency levels.



Fig 129 - Emergency

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 130) containing the main data of the operation.



Fig 130 – Operation details

Click the Select button in the window (Fig 130 A) to access the "OranJ Form" page corresponding to the operation clicked (Fig 11).

4.4.3. The command bar



Fig 131 – Room Plan module command bar

On the command bar, the three buttons 6 Hours, 12 Hours, 24 Hours (Fig 131 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 131 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 131 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 131 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 132 A) displays in textual form information on the schedule of the selected operating room.

8 4 8	9 1 1 1 1 1 1 1 9		10 11 ADENOMECTOMI/ UROLOGIA 10 11	12 TRANSV 12	13 Disinclusione denti DODNTOIATRIAST 13	14 Ernioplastica inc CHIRURGIA DAY 3 14	15 16 Estrazioni denti inc DONTOIATRIA/STO 15 16	17 17	
APERTURA SALA	۹					DAILY PROGR	AM		
		3.40	60						
08.10	ľ	13.40	60 ADENUM	CTUMIA TRANSVESCICALE	- URULUGIA	-			
INIZIO PULIZIE		12.15	45 Disinclusi	one denti inclusi - ODO	NTOIATRIA-STOMATOLOGIA				
08.20	13	3.40 13.40	30 - 10 30 Ernioplas	tica inguinale dx/sx - C	IIRURGIA DAY SURGERY				
FINE PULIZIE	14	4.50 14.50	40	i denti inclusi - ODON	OIATRIA-STOMATOLOGIA				
FINE MANUTEZION	NE	11.20	10 131142101			B ASSIGN	ED		
09.00		 	30 30 Plastica e	rnia ombelicale - (HIRU	rgia plastica	V			
CHIUSURA SALA	۹ I	7.00	40	LENGT					
		17.00	40 Asportazi	one neoformazione cuta	nea + innesto - CHIRURGI	A GENERALE			
			SU 30 Emionlas	tica inguinale dv/sx - (H	IIRURGIA DAY SURGERY				
			50	ER 1440E					
			50 Settoplas	tica Funzionale - ORL E	CH.CERVICO-FACCIALE				
	.	1.UU 17.00	6U 60 Badicaliz:	azione melanoma + 15					
EDIT			NOT ASSIGNED	6 HOURS	12 HOURS	24 HOURS			CLOSE
	Fig 132								

Every row corresponds to an operation (Fig 133).



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 133 A). The rest of the row shows:

- the planned duration of the operation (Fig 133 **B**);
- the patient's name (Fig 133 C);
- the type of operation scheduled (Fig 133 **D**).

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

If the left part is highlighted red (Fig 134) it means that the operation is an "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).



The "not assigned" area of this page contains the same operations displayed in the "not assigned" area of the OranJ "Plan" screen (Fig 119).

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 132 **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 130, 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 135 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.

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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 132 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 136)





The Not Assigned button on the command bar activates.

Click the Not Assigned button (Fig 135 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 137) are displayed and recorded in the column on the left side of the page (Fig 125 **B**).



Fig 137 – 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 138).



Fig 138 – 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 139).



Fig 139 – 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 140).

apertura sala 8.00	7	8	9	3 Pl
INIZIO MANUTENZIONE 8.15	4	5	6	
INIZIO PULIZIE 8.30	I	2	3	RANCO
FINE PULIZIE 9.00 FINE MANUTEZIONE	()		A <u>n anaste</u>
9.10 CHIUSURA SALA				e (ortopt
		I SO RESE	ZIONE CIECO6	

Fig 140 – 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 140).

Click the C button on the keyboard (Fig 140 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

The main page of this module (Fig 141) represents a surgical block.



The **BH05** button on the command bar (Fig 141 **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 141 A, Fig 142) represents an operating room.



Fig 142 – Operating room detail

Every cell can contain the following information (Fig 142).

- The room number (Fig 142 A).
- The time envisaged for the end of the operation in progress (Fig 142 B).
- The picture of the operating table. This is only possible if a webcam is installed in the room (Fig 142 C).
- The name of the hospitalization unit requesting the operation (if specified Fig 142 **D**).
- The name of the operating surgeon (if already assigned Fig 142 E).
- The patient's name (Fig 142 **F**).
- The type of operation (Fig 142 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 142 **H**).
- The scheduled operation start time (if the operation has not yet started, this is the case shown in Fig 141 A)
- The patient's name and the type of operation, if any, which will follow the one in progress (Fig 142 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)

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 144).

Click any other part of the cell to open a window (Fig 143) containing the main data of the operation.



Fig 143 – Operation details

Click the Select button (Fig 143 A) to access the "OranJ Form" page relating to the operation clicked (Fig 11). The window shown in Fig 143 disappears after a few seconds. Click on it to make it disappear immediately. Click the "thumbtack" indicated in Fig 143 B to "pin" it to the page.

5.2. Operating Room detail

The page shown in Fig 144 displays all the details of the selected operating room.



Fig 144 – 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 142 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 144 A).

Beneath it there is a time line displaying the daily schedule of the room (Fig 144 **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 144 **B**, Fig 145).



The box on the left (Fig 145 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 146) 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 145 **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 145 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 147).



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 147. In the figure here displayed the three yellow bars indicate

- 1) a 5 minutes delay in the pre surgical planned duration (Fig 147 A);
- 2) a 15 minutes delay in the surgical planned duration (Fig 147 B);
- 3) a 10 minutes delay in the post surgical planned duration (Fig 147 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 148). The small box indicated in Fig 148 **A** specifies the emergency level. In the configuration here described there are three possible emergency levels.



Fig 148 - Emergency

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 149) containing the main data of the operation.



Fig 149 – Operation details

Click the Select button in the window (Fig 149 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 150 **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 150 **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 144 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 144 **D**, Fig 151)) displays data relating to the operation in progress.

		Q	
PLANNED DURATION	VARIATIONS	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
4.44	-0.29	16:22 - NOTA CHIRURGO	20.40

Fig 151 - Operating times detail

The area shown in Fig 151 is described in the following paragraphs.

5.6. Operating times detail

The area indicated in Fig 144 \mathbf{A} and Fig 152 provides detailed information on both the room times and the current operation progresses.

Operati	on 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 152	

There are three sections in the area:

- 1) the section indicated in Fig 152 **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 152 **B** displays the chronological list of all the markers and the events recorded for the currently selected operation;
- 3) the section indicated in Fig 152 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 152 A, Fig 154) 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 153).



Fig 153

There are four timers indicating the operation times (Fig 152 A, Fig 154).

PLANNED DURATION	VARIATIONS
ELAPSED TIME	RESIDUAL TIME
	1.30

Fig 154

- 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.

i

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 154 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 155 A) when the "Room in" marker is recorded on the "OranJ Home" screen. The "Room in" marker implies the beginning of the presurgical time.

When the pre-surgical time begins the "ELAPSED TIME" and "RESIDUAL TIME" timers start displaying their values (Fig 155 **B**).
BH05 16 REDUCTION FERMEE ET OSTEOS	YNTHESE COL FEMORAL (GAUCHE) (F	FEMUR PROXIMAL) (79.15)		
	R DUCTION FER		15 16 HERNIE INGUINALE BII	
			10.45	REDUCTION FERMEE ET OSTEOSYNTHESE COL FEMORAL
B				
PLANNED DURATION VARIA	TIONS 9:42 - Entrée	au Bloc		SESSION DELAY
1.30 0.	1 20 - Entrée	e en Salle		0.00
ELAPSED TIME RESIDU				SESSION END
				10.40
	6 HOURS 12 HOURS	24 HOURS		CLOSE

Fig 155

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 156 A). The yellow bar length is proportional to the delay amount.



Fig 156 - 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 157 A).

BH05 18 DERMABRASION (86.25)	
DERMABRASION (85.25) REDUCTION FERM	
	17 18 19
8.00	DERMABRASION (86.25)
B	
PLANNED DURATION VARIATIONS 11:00 - Entrée au Bloc	SESSION DELAY
Charles Charles Charles Charles	0.00
	SESSION END
	الیاتانینا: ۱۱ ایسا باد. عکار (۱۵)

Fig 157

In Fig 157 **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 <u>was</u> 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 158 A).



Fig 158 - 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 159 A). The "Suture" marker implies the beginning of the post-surgical time.

	ECTION CICATRICE (86.84)	12 13 14 DN CIC LIPOFILLING (86.83) 12 13 14 8.1	15 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 18 19
PLANIVED DURATION	VARIATIONS	8:00 - Entrée au Bloc 8:20 - Entrée en Salle		SESSION DELAY
ELAPSED TIME	RESIDUAL TIME)8:50 - Remise au chirurgien 10:00 - Fin d'intervention 12 HOURS 24 HOURS	• •	SESSION END

Fig 159

In Fig 159 **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 159 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 160 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	CTION CICATRICE (86.84)			
23 7 7			14 15 16 14 15 16 8.15 CORRECTION	17 18 19
PLANNED DUKATION	VARIADONS	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	jien	SESSION END
	6 HOURS	12 HOURS 24 HOURS		CLOSE

Fig 160 - 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 161 A).



Fig 161 - Post-surgical time delay

i

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

In Fig 160, for instance, the overall operation delay is 9 minutes, but the post-surgical 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 162 A)

BH05 23 CORRE	CTION CICATRICE (86.84)	B				
	ection cicatrics (Corre		13 ILLING (86.83	14 15	16 	
	9 10 LCPR	CPR 12	13	14 15	1 I I I I I I I I I I I I I I I I I I I	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ľ					
PLANNED DURATION	VARIATIONS					SESSION DELAY
1.00	U.88					0.0Z
ELAPSED TIME	RESIDUAL TIME					SESSION END
						14.37
	6 HOURS	12 HOURS	24 HOURS			CLOSE

Fig 162

The successive operation is automatically selected (Fig 162 **B**), its main data are displayed alongside the screen header (Fig 162 **C**). Timers display the times of the selected operation (Fig 162 **D**).

5.6.1.5. Variations requests

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

i

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

The next two figures (Fig 163 and Fig 164) illustrate the changes on the operating room timers after a time variation request.

BH05 23 CCA							
	RECTION CICLORRECTIO	N CIC LIPOFILLIN	13 G (86.83)		16 	17 18	19
23 CPR	CEP	CPR					
7 8	9 10	11 12	13	14 15 8.15	16 CORRECTION C	17 18 ICATRICE (86.84)	19
	B						
PLANNED DURATION	VARIATIONS	8:00 - <u>Entr</u>	ée au Bloc			SESSION DELAY	
1.30	0.00	2·20 - Entr	ée en Salle			0.00	
ELAPSED TIME	RESIDUAL TIME	8:10 - Rem	iise au chirurgi	ien		SESSION END	
<u> </u>	년. 년호			-		14.VD	
	6 HOU	RS 12 HOURS	24 HOURS			CLOSE	

Fig 163 - Times before variation request

Before requesting additional time the "Operating room details" screen timers display the following values (Fig 163 **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 164).

	BH05 23 CCA		12 1 ION CIC LIPOFILLING CFR 12 1	3 14 (86.83) 3 14 8.15	15 16 15 16	17 18 19
(PLANNED DURATION	VARIATIONS	8:00 - Entrée au 8:20 - Entrée eu 8 50 - Remise a	u Bloc n Salle uu chirurgien		SESSION DELAY
	1.28	6 HOURS	12 HOURS 2	4 HOURS	•	14.23 CLOSE

Fig 164 - 30 minutes variation

After requesting additional time the "Operating room monitor" screen timers display the following values (Fig 164 **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 164 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 164 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 152 C, Fig 165).



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 166 A)

BH05 16	1406			A
	RTICULATION ACROMIO-CLAVICUL	AIRE (DROITE) (81.91)		
16	ROTOMIE EXPLORAT REDUCTI	ON FERMEE ET OSTEOS	PONCTIO CURE DE HERNIE II	NGUINALE BII
PLANNED DURATION	VARIATIONS			SESS
A. 45	A. AA			
ELAPSED TIME	RESIDUAL TIME			SESSION END
	0.45			
	6 HOURS	12 HOURS 24 HOURS		CLOSE
		Eig 1((Seguian	and the second	

Fig 166 - 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 167 A.

BH05 16	JCTION FE LAPAR	RMEE ET O OTOMIE E	STEOSYI XPLOR		ORAL (GAU 12 UCTION FEI 12	che) (fe !Mee et	MUR PROXIM OSTEOSYN	AL) (79.15) PONCTIO CU OTP R CH	15 RE DE 15 10.4	15 HERNIE INGUII 15	NALE 7.1	17 17 17 17 17 17 17 17 17 17 17 17 17 1	18 1
PLANNED DURATIO	DN		VARIAT	IONS	9:42 - E	ntrée a	u Bloc	_	1	_		SESSION D	DELAY
ELAPSED TIME		RF	SIDUA	TIME	11:00 - E 11:30 - R	intrée (Remise	en Salle au chirurgi	en		(SESSION	END
1.12				5.5								17.0	20
_	-			6 HOURS	12 HOU	RS	24 HOURS					CLOSE	

Fig 167 - Session delay

In Fig 167 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 <u>planned</u> 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 168 is an example of configuration.

6.1. Page features



The series of numbers highlighted in Fig 168 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 168 **B**.

Click the button to open a pull down menu that makes it possible to select 2, 4, 8, 12 or 24 hours (Fig 169).

02.00
04.00
08.00
12.00
24.00
08:00

Fig 169 – Time range selection

The option selected is displayed on the button. In Fig 168, 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 170) shows on different time lines the events recorded.

ROOM EVENTS PROTEST MAMMARIA Slucosio 33% Slucosio 10% ALTRI FARMACI	InSo	IPA	Incis		Sutu	ra FinPrA	n	Outs	io TOutBlo			
NFUSIONI EMPI	InSo	IPA	Incis		Sutu	ra FinPrA	n	Outs	ōloutBlo		 	

Fig 170 – Events Chronology

Both the markers (Fig 170 **A**) and other room events such as the drugs administered, any infusions, anesthesiological and surgical procedures implemented, etc. are shown (Fig 170 **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 170 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 171) displays the trends of the parameters acquired by the room devices.



Fig 171 - 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 171 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 172 – OranJ Chart screen command bar											

The buttons on the command bar (Fig 172) 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 - ^{Content} - on the Digistat lateral bar.

The following screen will is displayed (Fig 173).



Fig 173 - 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

> click the corresponding icon \bigcirc on the Digistat lateral bar.

The following screen is displayed (Fig 174).

	LIST OF OPERATIONS IN BLOC 'BIOCCO Operatorio' PLUS RESERVES								
AB	CHECK IN	CHECK OUT							
C	5 BLO EGDs diagnostica 17.30 1 CARDIOCHIRURGIA	10 BLD settoplastica funzionale ORLE CH CERVICO-ACCULE							
DE	9 BLO Blefaroplastica inferiore bilaterale 1812 1 CARDIOCHIRURGIA	8 8L0 FESS: 70 minuti 2 Cata d Cura UROLOGIA							
F	7 BLO ENDOPROTESI D'ANCA 800 ORTOPEDIA E TRAUMATOLOGIA	5 C [*] C [*] BLD Off-reading Off-reading							
G	7 BLO Adenoidectomia 8.58 21 NEFROLOGIA	9 BLD 14ro intervento proctologico							
HI	6 BLO Asportazione corpo estraneo 1640 1 Casa di Cura CHIRURGIA VASCOLARE	4 BLD _ Trapianto cordonale con tecnica infusionale intraossea _ EMATOLOBIA							
KL	7 BLO Innesto sostituto osseo 1655 1 ORTOPEDIA E TRAUMATOLOGIA	1 BLD innesto sostituto osseo Di Di D							
M	4 BLO Colposacropessia laparoscopica 1950 2 Casa di Cura OSTETRICIA	1 BLD TUMORECTOMIA RENALE 1500 FEUMATOLICIA							
N	8 BLOTraumi - esiti frattura - rimozione viti 1800 1								
OP	3 BLO Sostituzione espansore con protesi + mastoplastica con 8.00 CHIRURGIA PLASTICA	trolaterale							
Q	3 BLO 10.35 CHIRURGIA PLASTICA	trolaterale							
RS									
T	13.10 CHIRURGIA PLASTICA								
U									
VW									
X V7									
ALL									
BI	.0 OTHER NONE RES	ERVES TODAY CLOSE							

Fig 174 - OranJ 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.

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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 174).
- \succ scan the barcode of the patient who is entering the operating block.

A patient identification window is displayed (Fig 175).

PATIENT IDENTIFICATION
Patient Code
1 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 v b n m , shift
ctrl win alt alt gr menu

Fig 175 - Patient identification

The patient code is visible in the field indicated in Fig 175 A.

Click the **Identify** button (Fig 175 **B**).

The window changes in the following way (Fig 176).



Fig 176 - User identification

The window shown in Fig 176 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 176 A.
- ➢ Click the Verify button (Fig 176 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 177).



i

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 178).

LIST OF OPERATIONS IN BLOC 'Blocco Operatorio' PLUS RESERVES								
AB CHECK IN	CHECK OUT							
5 BLO EGDS diagnostica 1720 1 CAPDID HIRUFGIA	10 BLO Settoplastica Funzionale ORLE CH CERVICO-RACIALE							
D 80 Blogaroplastica inferiore bilaterale Blogaroplastica inferiore bilaterale	8 800 F55: 70 minuti 2 Casa di Cua UROLOGIA							
F BLO ENDOPROTEST D'ANCA 800 I ONTOPEDIA E TRAUMATOLOGIA	5 O'. C' BLO Ort mano - dito a scatto - tenolisi ORTOPEDIA E TRAUMATOLOGIA							
G 7 8.0 Adenoidectomia 8.5 2 NEFROLUGIA	9 BLO Altro intervento proctologico							
6 800 Asportazione corpo estraneo 1601 Cesa di Cura ChiRURGIA VASCOLARE	4 BLO Trapianto cordonale con tecnica infusionale intraossea 2 EMATOLUGIA							
7 BL05 Innesto sostituto osseo 5 1 ORTOFEDIA E TRAUMATOLOGIA	1 Innesto sostituto osseo ORTOFEDIA E TRAUMATOLOGIA							
A BLO Colposacropessia laparoscopica BSO 2 Cesa di Cue OSTETAIDA	1 BLO TUMORECTOMIA RENALE 15:00 REUMATOLOGIA							
N BLO Traumi - esiti frattura - rimozione viti								
0P 3 BLO Sostituzione espansore con protesi + mastoplastica controlaterale 200 CHIFURGIA FLASTICA								
Q 3 BLO Sostituzione espansore con protesi + mastoplastica controlaterale 10.35 CHIRUMGIA FLASTICA								
R3 3 BLO Exercisi Lipoma T 1310 CHIPURGIA FLASTICA								
VW								
X								
YZ								
ALL								
BLO OTHER NONE RESERVES	TODAY CLOSE							

Fig 178 - OranJ "Check in"

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

click the rectangle corresponding to the patient/operation that is checking-in (Fig 178 A). A patient identification window opens (Fig 179).

		ATION			\diamond
\langle	Patient Code 2006		1		
				•	
				B	
			(IDENTIFY	CANCEL
		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 I ò	à enter
	shift	I X C	v b n m	,	shift
	ctrl win	alt	a	alt gr menu	

Fig 179 - Patient identification

- > Type the patient code in the field indicated in Fig 179 A.
- Click the **Identify** button (Fig 179 B).

The window changes in the following way (Fig 180).

	PATIENT IDENTIFICATION Patient Code		Born on, agey Male, Weight kg I. ADMIN, hereby declare to have thoroughly verified the identity of patient					
\langle	Password		VERIFY CANCEL					
	\ I 2 :	4 5	6 7 8	9 0	i	back		
	tab q w	e r t	y u	i o	pè-	+ ù		
	lock a	i d f	g h j	k I	òà	enter		
	shift Z	ХСУ	b n	m , .		shift		
	ctrl win alt			alt gr menu				

Fig 180 - User identification

The window shown in Fig 180 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 180 A.
- Click the **Verify** button (Fig 180 **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 178. 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 181).



i

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 182).



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

- click the rectangle corresponding to the patient/operation that is checking-out (Fig 182 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 ٠
- 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 183) displays information on the daily schedule of the room for which the workstation is configured.

	4 8 1 1 1 1 1 8		10 11 ADENOMECTOMI UROLOGIA 10 11	12 A TRANSV 12	13 Disinclusione denti 2 ODONTOIATRIA:ST 13	14 Ennioplastica in CHIRURGIA DAY S 14	15 16 Estrazioni denti inc ODDINTOIATRIA-STO 15 16	17 17	18 1 	9 20 9 20
	APERTURA SALA		_			DAILY PROGR	AM			
(08.00	13.40	60							
	INIZIO MANUTENZIONE	13.40	0 60 ADENOM	ECTOMIA TRANSVESCICAL						
	08.10	12.15	45	10-010 C						
	INIZIO PULIZIE	12.1	45 Disinclus	ione denti inclusi - OD	ONTOIATRIA-STOMATOLOGIA					
	09.20	13.40	30	NOT STOLEN						
(B>	06.20	13.4) 30 Ernioplæ	stica inguinale dx/sx - I	HIRURGIA DAY SURGERY					
	FINE PULIZIE	14.50	40	10000						
	08.45	14.5) 40 Estrazion	ni denti inclusi - ODOP	TOIATRIA-STOMATOLOGIA					
	FINE MANUTEZIONE					NOT ASSIGN	ED			
	09.00	,	30	OUR TRACK						
		,	30 Plastica	ernia ombelicale - CHIR	urgia plastica					
	CHIUSURA SALA	17.00	40	L Rate III						
		17.0	40 Asportaz	ione neoformazione cut	anea + innesto - CHIRURO	GIA GENERALE				
		,	30 💻							
		,	30 Erniopla:	stica inguinale do/sx - I	HIRURGIA DAY SURGERY					
			50							
			50 Settoplas	stica Funzionale - ORL I	: CH.CERVICO-FACCIALE					
		17.00	OU do Destante							
		17.0	U OU KADICALIZ	zazione melanoma + L	3 - CHIRORGIA GENERALE					
	EDIT		NOT ASSIGNED	6 HOURS	12 HOURS	24 HOURS			CLOSE	
				1	Fig 183	Doom Dlo	n			

Fig 183 – Room Plan

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 183 A, Fig 184).



The box on the left (Fig 184 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 185) 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 184 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 184 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 186).





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 186. In the figure here displayed the three yellow bars indicate

- 1) a 5 minutes delay in the pre surgical planned duration (Fig 186 A);
- 2) a 15 minutes delay in the surgical planned duration (Fig 186 **B**);

3) a 10 minutes delay in the post surgical planned duration (Fig 186 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 129). The small box indicated in Fig 187 A specifies the emergency level. In the configuration here described there are three possible emergency levels.



Fig 187 - Emergency

Every operation box can be clicked. Click one of the boxes to open a window containing the main data of the operation (Fig 188).



Fig 188 – Operation details

Click the **Select** button in the window (Fig 188 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 189 **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 189 **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 189 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 189 **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 190 A) provides information on the schedule of the selected operating room.

	9 9		10 11 ADENOMECTOMIA UROLOGIA 10 11	12 TRANSV 1 12	13 Disinclusione denti DDDNTOIATRIA-ST 13	14 Ernioplastica inc CHIRURGIA DAY 14	15 16 Estrazioni denti inc ODUNTOJAT RIA STO 15 16	17 		9 20
08.00		40	60			DAILY PROGR				
INIZIO MANUTENZIO	ONE IS.	13.40	60 ADENOME	CTONIA TRANSVESCICALE	UROLOGIA					
08.10	12.	15	45 45 Diriochri	ene denti jochri - 0000						
08.20	13.4	40 13.40	30	tica inguinale dx/sx - (H	RURGIA DAY SURGERY					
FINE PULIZIE	14.	50		denti inclusi - ODONT						
FINE MANUTEZION	NE	19.20	40 CST(4210)	r dente iniciasi - ODONI	MATRIASTONATOLOGIA	NOT ASSIGN	ED (B)			
09.00		-	30							
CHIUSURA SALA	17.	00	30 Plastica e 40	rnia ombelicale - CHIRUF	IGIA PLASIILA					
		17.00	40 Asportazi	one neoformazione cutan	ea + innesto - CHIRURG	IA GENERALE				
		•	30 Emioplas	tica inguinale dw/sx - CH	RURGIA DAY SURGERY					
		-	50							
	17.0	00	50 Settoplast 60	rica Funzionále - ORL E I	H.GERWICO-FACUALE					
		17.00	60 Radicaliza	azione melanoma + LS	- CHIRURGIA GENERALE					
EDIT			NOT ASSIGNED	6 HOURS	12 HOURS	24 HOURS			CLOSE	
					T ! -	100				



Each row corresponds to an operation (Fig 191).



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 191 A). The remainder of the row displays:

- the planned duration of the operation (Fig 191 **B**);
- the patient's name (Fig 191 C);
- the type of operation scheduled (Fig 191 **D**).

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

If the left part is highlighted red (Fig 192), 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).

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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 190 **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 188, 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 193 **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, so moving a box from one position to another on the time line means changing the time of the corresponding operation. The changes are automatically displayed on the other OranJ modules.

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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 193 A), click the row corresponding to the operation you wish to remove.

The rectangle on the left turns to yellow (Fig 194)



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

Click the Not Assigned button (Fig 193 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 195) are displayed and recorded in the column on the left side of the page (Fig 183 **B**).

APERTURA SALA
8.00
INIZIO MANUTENZIONE
8.15
INIZIO PULIZIE
8.20
FINE PULIZIE
9.00
FINE MANUTEZIONE

Fig 195 – 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 196).



Fig 196 – 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 197).



Fig 197 – 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 198).

8 9 Apertura sala 8.00	7	8	9	3 Pl
INIZIO MANUTENZIONE 8.15	4	5	6	
INIZIO PULIZIE 8.30	I	2	3	RANCO
9.00 FINE MANUTEZIONE	(0 🔗		A <u>n anaste</u>
9.10	+/- (C) <	E (ORTOP
CHIUSURA SALA		I SO RESE	ZIONE CIECO6	

Fig 198 – 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 198).

Click the C button on the keyboard (Fig 198 A).

User confirmation is required.

Click Yes to delete the marker.

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

9. Contacts

For any issue, please refer first to the Distributor who installed the Product.

Here are the manufacturer contacts:

• Ascom UMS srl unipersonale

Via Amilcare Ponchielli 29, 50018, Scandicci (FI), Italy Tel. (+39) 055 0512161 Fax (+39) 055 8290392

• Technical assistance

support.it@ascom.com

800999715 (toll free, Italy only)

• Sales and products information

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• General info

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