



DIGISTAT® Therapy

DIGISTAT® Version 5.0

User Manual

DIG UD THP IU 0006 ENG V01

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DIGISTAT® version 5.0

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1. The DIGISTAT® “Therapy” system



For general and detailed information about the DIGISTAT® environment and the instruction for use of the Control Bar software see the document “DIG UD CBR IU 0006 ENG V01 - Digistat Control Bar User Manual”. Reading the “DIG UD CBR IU 0006 ENG V01 - Digistat Control Bar User Manual” is a mandatory prerequisite for a correct and safe use of the DIGISTAT® Therapy software.

1.1. Introduction

The DIGISTAT® “Therapy” system can be of help for the clinical staff for the documentation of the treatments prescription and administration tasks.

1.2. Patient selection

To select a patient, if you are using a DIGISTAT® software,

- click the **Patient** button on the Control Bar (Fig 1)

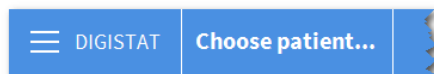


Fig 1 - Patient selection button

The DIGISTAT® “Patient Explorer” module will open (if the module is available, otherwise the patient search and selection functions are accomplished by DIGISTAT® “Control Bar”). See either the “Patient Explorer” module or the “Control Bar” technical documentation to know the specific search and selection procedures.

If the software in use is not a DIGISTAT® software see the related documentation.



If your healthcare structure does not use a DIGISTAT® software for the patient search and selection procedures, please refer to the specific related documentation.

When a patient is selected the patient name is displayed on the **Patient** button.

The “Therapy Prescription” and “Therapy Execution” modules display the data of the selected patient.



The patient can be selected on the “Central Station” module as well, clicking the box corresponding to his/her bed. See paragraph 7.2.

1.3. Basic concepts

This paragraph explains some fundamental notions whose preliminar understanding is essential to the appropriate use of the DIGISTAT® Therapy system.

1.3.1. Prescription status

The “Therapy Prescription” module (described in paragraph 2) makes it possible to document a treatment plan and keep it active in time after scheduled validations. Possible variations are easily and quickly recorded while the general plan remains the same.

The patient’s treatment plan is summarized and displayed in a table (Fig 2). Each row corresponds to a treatment prescription.

Name	Details	Weight ! ⬆ ⬇ ⬅	Status	Days	Repeat
Albumina 20%	ev, 24 mL, 1 mL/h, for 24 hours, at h12	88	Active	0	Yes
Miscela Sali	ev, 100 mL of Soluzione Fisiologica, 4,17 mL/h, for 24 hours, 18/01/2018 h13	88	Active	0	
Normosol M	ev, 24 mL of Soluzione Fisiologica, 1 mL/h, for 24 hours, at h11	88	Active	0	Yes
Aciclovir (bolo)	ev, 5 mg, at h13 starting from 18/01/2018 h13	88	Active	0	Yes
Amoxicillina	ev, 10 mg in 100 mL, 0,114 mg/Kg/h, 100 mL/h, for 1 hour, 18/01/2018 h15	88	Active	0	
Clonidina	ev, 5 mcg in 100 mL of Soluzione Fisiologica, 0,0024 mcg/Kg/h, 4,17 mL/h, for 24 hours, Esempio prescrizione condizionale	88	Active	0	
Paracetamolo (bolo)	ev, ____ mg, at h13 starting from 18/01/2018 h13	88	Active	0	Yes

Fig 2 - Prescription table

Each prescription generates a certain number of orders. The orders correspond to the single administrations of the treatment.

A prescription is completed when all the orders that it generated have been executed and no other order will be generated by it in the future.

Completed prescriptions appear in strike-through characters on the prescriptions table (Fig 3).

Midazolam	0,053 mg/kg/h, 3 mL/h, 0,60 mg/50 mL, h15, h10	Active	7
-----------	--	--------	---

Fig 3 - Completed prescription

The completed prescriptions are still in “Active” status because it is this way possible to prescribe them again quickly, without having to specify the prescription details again (Fig 3 A). It is in fact possible to restore a completed prescription by double-clicking the corresponding row. The prescription specification window will appear, displaying the values of the original prescription. See paragraph 4 for the description of the prescription specification window and the related procedures.

The prescription status is displayed, on the table, in the column indicated in Fig 2 A.

There are four possible prescription statuses:

1. “Active” - when a prescription is in “Active” status the prescription values can be displayed and edited. Double-click the corresponding row to open the related “prescription specification” window (described in paragraph 4).
2. “Active and completed” - a prescription is completed when all the orders that it generated are executed and no other order will be generated by it in the future. Completed prescriptions are still active, that means that the prescription values can be displayed and edited. Double-click the row corresponding to the prescription to display the related “prescription details” window. Completed prescriptions appear in strike-through characters on the prescriptions table.
The **Remove Completed** button on the command bar cancels all the completed prescriptions from the prescriptions table and turns them to “Terminated” status.
3. “Suspended” - the prescription suspension, performed using the **Suspend** button on the command bar, deletes all the existing orders generated by the prescription. Moreover, when a prescription is in “Suspended” status, it does not generate further administration orders. A suspended prescription can be resumed using the **Resume** button on the command bar. See paragraphs 5.4 (prescription suspension) and 5.4.1 (how to resume a suspended prescription) for the related procedures.
4. “Terminated” - the prescription is “Terminated” either using the **Remove** or the **Remove Completed** button on the command bar. When a prescription is terminated all the orders generated by it are deleted. Moreover, the “Terminated” prescription does not generate further administration orders. It is **NOT** possible to resume a “Terminated” prescription. See paragraphs 5.3 (prescriptions removal) and 5.8 (completed prescriptions removal) for the related procedures.



The prescriptions table is described in paragraph 2.3.

1.3.2. Repeatable vs. Non Repeatable Prescriptions

Repeatable prescriptions

A prescription is “**Repeatable**” if it generates orders that must be administered at given intervals. For example: a prescription can state that a drug must be administered every day at a certain time. In this case the prescription is repeatable; it generates the corresponding orders placing each of them in the required days at the required time/s.

The orders are generated for seven days in the future starting from the date indicated as treatment start date. The next orders are generated when the next treatment validations are performed (see paragraph 5.1 for the treatment plan validation procedure).

Non-repeatable prescriptions

Non-repeatable prescriptions generate only the administration orders explicitly specified in the prescription. When all the orders are executed the prescription is “Completed” and appears in strike-through characters on the prescriptions table. Then the prescription turns to “Active and completed” status.

The repeatability of a prescription is set by a specific checkbox on the prescription specification window (see Fig 4 B for an example).

The repeatability of a prescription is indicated in the last column on the right on the prescriptions table (“Repeat” column, see Fig 8, paragraph 2.3).

1.3.3. Punctual vs. Durative administrations

Punctual administrations start and end in one moment (a tablet, for instance).

Durative administrations last a certain amount of time (a drip, for instance).

These two types of administrations are characterized by different graphic features and different management procedures on the Therapy Execution module. See paragraph 6.3 for a detailed description of the possible administration types on Therapy Execution.

1.3.4. The Therapy Cycle - treatment plan re-confirmation procedure

The validity of the treatment plan created on DIGISTAT® Therapy is limited in time and needs to be re-confirmed by the medical staff.

The treatment plan validity period is called “Therapy Cycle”. The “Therapy Cycle” duration is configurable by the system administrators. See the information box at the end of this paragraph for more information on the “Therapy Cycle” duration.

The “Therapy Cycle” re-confirmation procedure, described in paragraph 5.1, has the following outcomes:

- a) it generates the possible not-still-generated orders within the next “Therapy cycle” (see paragraph 1.3.5 for a description of the way orders are generated from prescription);
- b) it validates the orders that are within the next “Therapy cycle” (see paragraph 5.1 for the validation procedures).

The “Therapy Cycle” re-confirmation is a safety procedure that forces to check and verify the treatment plan at specified intervals.

When the treatment plan validity is expired the system does not generate any other order from the existing prescriptions.

The treatment plan expiration time is signalled on screen by specific indicators. These indicators are described in paragraph 2.5.

The treatment plan re-confirmation procedure is described in paragraph 5.1.



The “Therapy Cycle” duration is set by configuration.

The “Therapy Cycle” update procedure can have, depending on the configuration in use, the following outcomes:

- *the validity period is updated for the next N hours;*
- *the validity period is updated until NN:NN o’clock of the following day;*
- *the validity period is updated until the midnight of tomorrow;*
- *the validity period is updated until the midnight of day after tomorrow.*

System configuration is reserved to the system administrator. Refer to the system administrator for more information.

1.3.5. Orders generation

This paragraph explains how the system generates the orders from a prescription specified in the treatment plan.

At prescription time, i.e. when the **Prescribe** button on the “prescription specification” window is clicked (Fig 31 A, see paragraph 3.2), the system generates the orders corresponding to the prescription specifications.

When the treatment prescribed is non-repeatable (see paragraph 1.3.2 for an explanation of “treatment repeatability”), the system generates all the corresponding orders.

When the treatment prescribed is repeatable the system generates the orders for a maximum period of seven days in the future starting from the day indicated in the field “starting from” on the prescription detail window (see for example Fig 4 A).

06	07	08	09	10	11	12	13
14	15	16	17	18	19	20	21
22	23	+00	+01	+02	+03	+04	+05
+06	+07	+08	+09	+10	+11	+12	+13

Fig 4 - Daily treatment prescription

For exmple: if a repatable treatment is prescribed “starting from” the 6th of May 2010, the system generates the orders going from the 6th to the 12th of May.

Conditional prescriptions (paragraph 4.2.2) do not generate orders. These prescriptions are executed only when certain specific conditions occur.

1.3.6. Orders validation

The order execution standard procedure requires the order validation before the execution.

The orders that, when generated, are within the “Therapy cycle” are automatically validated.

The other orders are validated every time the “Therapy cycle” is updated when they are within this period (paragraph 5.1).


Non-validated orders are signalled by a specific icon  on the Therapy Execution module (Fig 5). They can be executed only after a special procedure, described in paragraph 6.5.2.



Fig 5 - Non-validated order on Therapy Execution

See paragraph 1.3.4 for the explanation of the “Therapy Cycle” (or “treatment plan validity period”).

See paragraph 5.1 for the treatment plan update procedure.

See paragraph 5.1.1 for a description of the “Orders confirmation window”.

Some critical/high risk drugs can be configured to require a double signature to be validated. I.e. it is required that a second user, different from the one who prescribed the treatment, confirm the order. Only after this second confirmation the order is displayed as valid on the therapy execution module. See paragraph 4.4 for the procedure.

1.3.7. Order validity expiration

The validity of an order expires after a certain amount of time after the scheduled administration time has passed. That is: if a validated order is not administered at the scheduled time it remains validated for a certain period. After this period the order goes back to non-validated state (it is named “expired” to differentiate it from future not-yet-validated orders).

Expired orders cannot be validated again.

Expired orders can be deleted from the treatment plan through the “Therapy cycle” update procedure. See paragraph 5.1.

Expired orders can be executed only using a specific procedure. The procedure is described in paragraph 6.5.2.



The orders validity duration is defined by a specific configuration parameter. Refer to the system administrator for more information.




The validity of a conditional prescription expires when the “Therapy Cycle” expires. Thus conditional prescriptions are automatically validated every time the “Therapy Cycle” is updated. See paragraph 4.2.2 for the explanation of “Conditional prescriptions”.

2. The “Therapy Prescription” module

2.1. Module selection

To select the “Therapy Prescription” module

➤ click the  icon on the lateral bar

When a module is selected the corresponding icon is highlighted.

The “Therapy Prescription” module’s main screen opens. Fig 6 shows the main screen when no patient is selected.

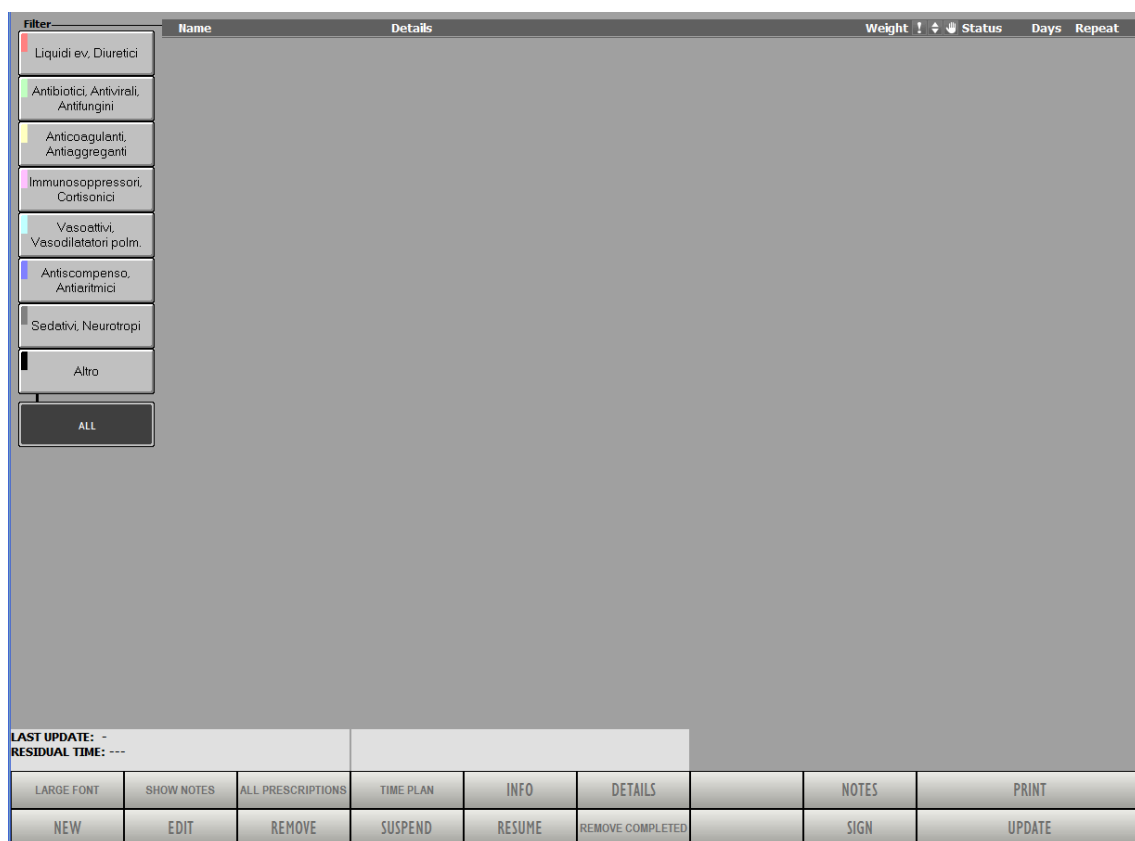


Fig 6 - Electronic prescription: no patient selected

2.2. “Therapy prescription” module’s main screen

After patient selection the “Therapy prescription” module’s main screen displays the treatment plan of the selected patient. Fig 7 shows an example.

Filter

- Liquidi ev, Diuretici
- Antibiotici, Antivirali, Antifungini
- Anticoagulanti, Antiaggreganti
- Immunosoppressori, Cortisonici
- Vasodilatatori polm.
- Antiscorpenso, Antiaritmici
- Sedativi, Neurotropi
- Altro
- ALL

Name	Details	Weight	Status	Days	Repeat
Albumina 5%	ev, 24 mL, 1 mL/h, for 24 hours, 3 orders	74	Active	0	
Furosemide	ev, 5 mg in 100 mL of Soluzione Fisiologica, 0,0027 mg/Kg/h, 4,17 mL/h, for 24 hours, x 2, at h12, 15	74	Active	1	Yes
Sodio Cloruro 0,9%	ev, 24 mL, 1 mL/h, for 24 hours, x 2, at h13, at h0, 8, 16	74	Active	1	Yes
Aciclovir	ev, 5 mg in 100 mL of Soluzione Fisiologica, 0,005 mg/Kg/h, 500 mL/h, for 1 hour, x 3, at h0, 8, 16	74	Active	1	Yes
Amoxicillina	ev, 2 mg in 500 mL of Soluzione Fisiologica, 0,004 mg/Kg/h, 500 mL/h, for 1 hour, x 4, at h0, 6, 12, 18	76	Active	1	Yes
Cefazolina	ev, 1 mg in 500 mL of Soluzione Fisiologica, 0,0132 mg/Kg/h, 500 mL/h, for 1 hour, x 4, at h0, 6, 12, 18	76	Active	1	Yes
Midazolam	ev, 1 mg in 100 mL of Soluzione Fisiologica, 0,0005 mg/Kg/h, 4,17 mL/h, for 24 hours, 17/01/2018 h18	76	Active	0	
Paracetamolo (bolo)	ev, 1000 mg, Soltanto se paziente...	76	Active	1	
Paracetamolo (bolo)	ev, 1000 mg, 17/01/2018 h13	76	Active	0	
Potassio Cloruro	ev, 5 mEq in 12 of Soluzione Fisiologica, 0,0676 mEq/mL/die, 0,5 mL/h, for 24 hours, 18/01/2018 h12	74	Active	0	

Filter buttons

Validity indicator

Custom box for additional info

Command bar

LAST UPDATE: 17/01 - 12:20
RESIDUAL TIME: EXPIRED

Peso attuale paziente: 74 Kg
Previsione bilancio nelle prossime 24h: 3916,34 mL

57 ADM)

LARGE FONT	SHOW NOTES	ALL PRESCRIPTIONS	TIME PLAN	INFO	DETAILS	NOTES	PRINT
NEW	EDIT	REMOVE	SUSPEND	RESUME	REMOVE COMPLETED	SIGN	UPDATE

Fig 7 - Treatment plan

The figure highlights the main items on screen:

- the prescriptions table (Fig 7 A - described in paragraph 2.3);
- the filter buttons (Fig 7 B - paragraph 2.4);
- the validity indicator (Fig 7 C - paragraph 2.5);
- additional information area - customizable (Fig 7 D - apartado 0);
- the command bar (Fig 7 D - paragraph 2.6).

2.3. Prescriptions table description

The various prescriptions of the treatment plan are displayed in a table (Fig 7 A, Fig 8).

Name	Details	Weight ! ⬆ ⬇ ⬇	Status	Days	Repeat
Albumina 20%	ev, 24 mL, 1 mL/h, for 24 hours, at h12	88	Active	0	Yes
Miscela Sali	ev, 100 mL of Soluzione Fisiologica, 4,17 mL/h, for 24 hours, 18/01/2018 h13	88	Active	0	
Normosol M	ev, 24 mL of Soluzione Fisiologica, 1 mL/h, for 24 hours, at h11	88	Active	0	Yes
Acidovir (bolo)	ev, 5 mg, at h13 starting from 18/01/2018 h13	88	Active	0	Yes
Amoxicillina	ev, 10 mg in 100 mL, 0,114 mg/Kg/h, 100 mL/h, for 1 hour, 18/01/2018 h15	88	Active	0	
Clonidina	ev, 5 mcg in 100 mL of Soluzione Fisiologica, 0,0024 mcg/Kg/h, 4,17 mL/h, for 24 hours, Esempio prescrizione condizionale	88	Active	0	
Paracetamolo (bolo)	ev, _____ mg, at h13 starting from 18/01/2018 h13	88	Active	0	Yes

Fig 8 - Prescriptions table





Each row in the table corresponds to a prescription. The prescriptions are grouped into classes. Each class is characterized by a specific colour (see paragraph 2.4 for a description of the different classes). The items belonging to the same class are in alphabetical order.



The columns in the table contain the following information (from left to right):

- **“F”** column (“F” means “Filter”) - Indicates the class of the prescription. Each class is associated to a color. See paragraph 2.4.
- **“Name”** column - Indicates the name of the prescribed treatment.
- **“Details”** column - Indicates the details of the prescription as, for example, the date and time of the different orders, the doses etc...
- **“Weight”** column - Indicates the patient weight at prescription time. If the weight changes, the cell is highlighted, indicating that, at prescription time, the weight of the patient was different from the current one (Fig 9 A).

Name	Details	Weight ! ⬆ ⬇ ⬇	Status	Days	Repeat
Albumina 5%	ev, 24 mL, 1 mL/h, for 24 hours, 3 orders	76	Active	0	
Furosemide	ev, 5 mg in 100 mL of Soluzione Fisiologica, 0,0027 mg/Kg/h, 4,17 mL/h, for 24 hours, x 2, at h12, 15	76	Active	1	Yes

Fig 9

-  column - If the  icon appears in this column it means that either the actions indicated on this row were executed differently from the way they were prescribed or they were executed without prescription. It is the case, for example, of a treatment executed with doses that are different from those prescribed.
-  column - The  icon appears in this column when the values of a durative prescription (a drip, for example) are changed on the “Therapy Execution” module while the administration is in progress. If this is the case the values specified on the “prescription detail” window differ from those recorded on the “Execution” module. The icon disappears when the values on the prescription window are realigned to those specified on “Execution”. See paragraph 5.2 for the prescription values change procedures.

-  column - The  icon appears when there is at least a non-validated order approaching administration time. This “proximity to administration time” is a time period set by configuration; in the configuration here described it is a three-hours period.
- **“Status”** column - Indicates the prescription status. See paragraph 1.3.1 for a list of the possible statuses of a prescription.
- **“Days”** column - Indicates the number of days from the first prescription of the treatment. When referred to a prescription in “Terminated” status (see paragraph 1.3.1 for an explanation of this concept) the “Days” column displays the termination date.
- **“Repeat”** column - Indicates whether the treatment is repeatable or not. See paragraph 1.3.2 for an explanation of “repeatable prescriptions”.

The prescription is written in strike-through characters when all the corresponding orders are already executed and no other order will be generated by it (completed prescription).

The prescriptions written in purple characters are conditional prescriptions. Conditional prescriptions correspond to the treatments that must be administered only if certain conditions occur (no administration time is specified for these prescriptions). See paragraph 4.2.2 for an explanation of “conditional prescription”.

2.4. Prescription filter buttons

Each treatment is associated to a class. The treatment-class association is defined by configuration. The names of the different classes are defined by configuration. The treatments can be grouped in 8 different classes.



Fig 10 - Prescriptions filters

Each class is characterized by a color. A specific button corresponds to the class (Fig 10 A). The class of a treatment is indicated by the color displayed in the “F” column (Fig 11).

Name
Albumina 5%
Furosemide
Sodio Cloruro 0,9%
Aciclovir
Amoxicillina
Cefazolina
Midazolam
Paracetamolo (bolo)
Paracetamolo (tblt)

Fig 11 - The class is indicated by the color

The buttons indicated in Fig 10 A make it possible to filter the items in the table. When one of the buttons is clicked, only the items belonging to the corresponding class are displayed.

For example, the “Infusions” button makes it possible to display only the items belonging to the “Infusions” class (Fig 12).

Name
Albumina 5%
Furosemide
Sodio Cloruro 0,9%

Fig 12

When two buttons are selected at the same time the system displays the items belonging to the two corresponding classes. To display the list shown in Fig 13 (“Infusions” and “Antibiotics”), for instance, the corresponding buttons were selected together.

Name
Albumina 5%
Furosemide
Sodio Cloruro 0,9%
Aciclovir
Amoxicillina
Cefazolina

Fig 13

The filter-buttons are on/off switches. Click the button again to remove the filter.

The **All** button makes it possible to display the prescriptions full list (Fig 14 A).

2.4.1. How to use the filter-buttons

2.4.1.1. How to apply a filter to the prescriptions list

To apply a filter to the prescription list,

- click one of the filter-buttons (Fig 14).



Fig 14

The button is this way selected (Fig 15).

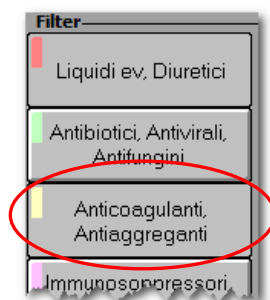


Fig 15 - Selected button

The prescription table displays the list of the items belonging to the class corresponding to the selected button.

2.4.1.2. How to remove a filter

To remove a filter,

- click the selected button again.

The button is this way deselected, the filter is removed.

2.4.1.3. How to display the full prescriptions list again

To display the full prescriptions list,

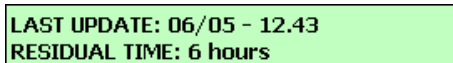
- click the **All** button (Fig 14 A).

All the buttons possibly selected are this way deselected.

2.5. Validity indicator

The validity of the treatment plan created on DIGISTAT® Therapy is limited in time. A periodical validation is required. See paragraph 1.3.4 for an explanation of the treatment plan validity.

The box shown in Fig 7 C and (in detail) in Fig 16 indicates the treatment plan validity. The validity indicator is a tool making it possible to constantly monitor the time remaining to the end of the treatment plan validity.



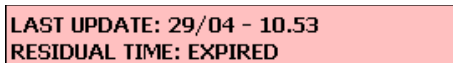
LAST UPDATE: 06/05 - 12.43
RESIDUAL TIME: 6 hours

Fig 16 – Validity indicator

The first row of the box specifies the date and time of the last update (Fig 16).

The second row indicates the time remaining to the end of the treatment plan validity.

When the treatment plan expires the box turns to red and specifies that the treatment plan is expired (Fig 17).



LAST UPDATE: 29/04 - 10.53
RESIDUAL TIME: EXPIRED

Fig 17 – Expired validity

Also, the treatment plan validity is indicated by a specific indicator on the **Patient** button on Control Bar (Fig 18). This button, which remains always visible, enables the clinical staff to keep the treatment plan validity under control when the “Prescription” module is not selected.

See Fig 18 for an instance.



Fig 18

The red portion of the time bar indicates the time passed from the last update, the green portion represents the time remaining to the expiration of the treatment plan validity.

WARNING!



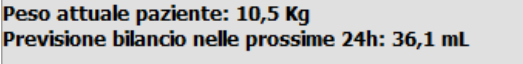
Updating the treatment plan is extremely important.

The person in charge should check and update the treatment plan validity before it expires.

Treatment plan update procedures are described in paragraph 5.1

2.5.1. Additional information - Customizable area

The box indicated in Fig 7 **D**, and enlarged in Fig 19 is a customizable area making it possible to display additional information regarding the patient and/or the therapy. In the example here shown the patient's foreseen fluid balance for the next 24 hours and the current patient weight are displayed. The kind of data here displayed, as well as the presence of the box, depends on configuration choices.

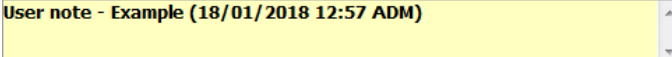


Peso attuale paziente: 10,5 Kg
Previsione bilancio nelle prossime 24h: 36,1 mL

Fig 19

2.5.2. The “Notes” area

The area placed on the right of the “Validity indicator” displays the possible patient notes. See paragraph 5.11 for the notes specification procedure.



User note - Example (18/01/2018 12:57 ADM)

Fig 20 - Notes Area

If relevant, the “notes” area can display the note specification date and time and the acronym of the user who added the note.

2.6. The command bar

The command bar of the “Prescription” module (Fig 7 D, Fig 21) contains various buttons that can be used to perform different actions.

LARGE FONT	SHOW NOTES	ALL PRESCRIPTIONS	TIME PLAN	INFO	DETAILS		NOTES	PRINT
NEW	EDIT	REMOVE	SUSPEND	RESUME	REMOVE COMPLETED		SIGN	UPDATE

Fig 21 - Command bar

This paragraph summarizes the functions of each button. The detailed procedures are explained in the paragraphs indicated.

Large Font - This button enlarges the characters displayed on screen to make them easier to be read. See paragraph 5.5.

New - This button makes it possible to add a new prescription to the treatment plan. See paragraph 3.1.

Show notes - This button displays the notes possibly related to every prescribed action. See paragraph 5.6.

Edit - This button makes it possible to display and edit the details of a selected prescription. See paragraph 5.2.

All prescriptions - This button displays the patient prescriptions full list, including those suspended and removed. See paragraph 5.7.

Remove - This button makes it possible to remove a selected treatment from the treatment plan. See paragraph 5.3.

Suspend - This button makes it possible to suspend a selected treatment on the treatment plan. See paragraph 5.4.

Resume - This button makes it possible to resume one of the treatments previously suspended. See paragraph 5.4.1.

Print - This button makes it possible to create a print report containing the details of the treatment plan. See paragraph 5.12.

Info - This button displays a document containing information about a selected treatment. See paragraph 5.13.

Notes - This button makes it possible to display and edit the patient's general notes. See paragraph 5.11.

Details - This button displays the details of a selected prescription. See paragraph 5.9.

Remove Completed - This button removes the completed prescriptions from the prescription table. See paragraph 5.8.

Time Plan - This button displays a summary of all the active prescriptions. See paragraph 5.10.

Update - This button makes it possible to update the treatment plan. See paragraph 5.1.

Sign - This button makes it possible to confirm the treatments requiring double signature. See paragraph 4.4.

3. How to prescribe a treatment

The following paragraphs describe the procedures that must be performed to specify a prescription and insert it into the patient's treatment plan.

3.1. How to search for a specific treatment

The **New** button on the command bar (Fig 22) displays a window that can be used to search for the treatment (or “standard action”) that must be added to the patient's treatment plan (Fig 23). The header of this window is “Select a standard action”.



Fig 22 - Command bar



The full treatment selection procedure is summarized in paragraph 3.2. This paragraph describes the window shown in Fig 23.

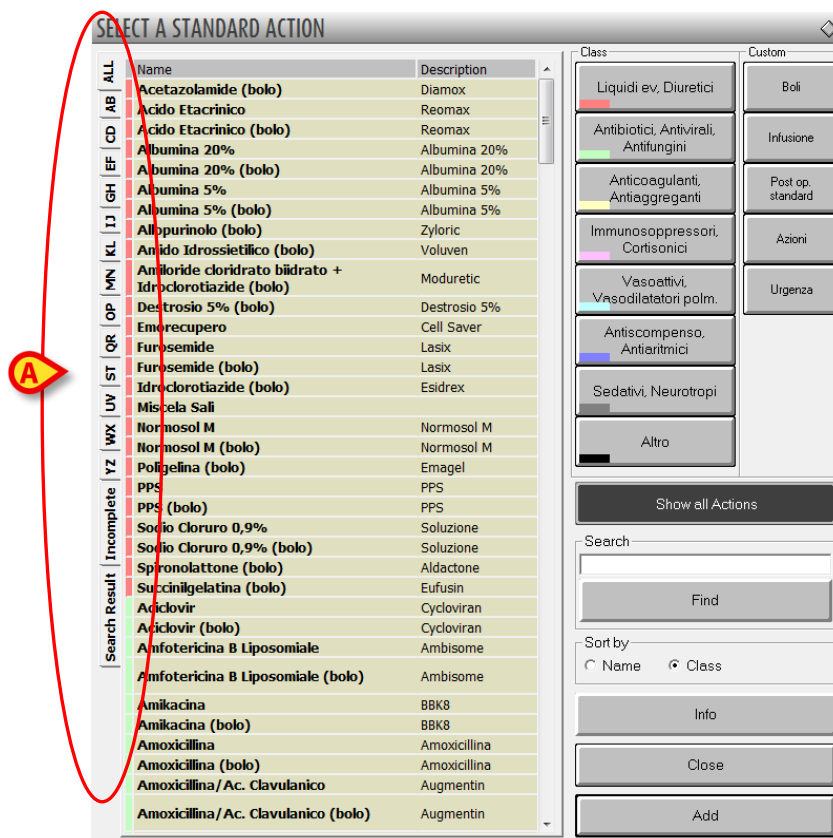


Fig 23 - Select a standard action

This window makes it possible to search and select a treatment (or “standard action”) that must be added to the treatment plan.

Various tools, described below, are available for this purpose.

3.1.1. Alphabetic labels

The labels on the left (Fig 23 A) make it possible to display the treatments whose names begin with a specific letter. Click the **AB** button, for instance, to display the treatments whose names begin with “A” and “B” (an example is shown in Fig 24).

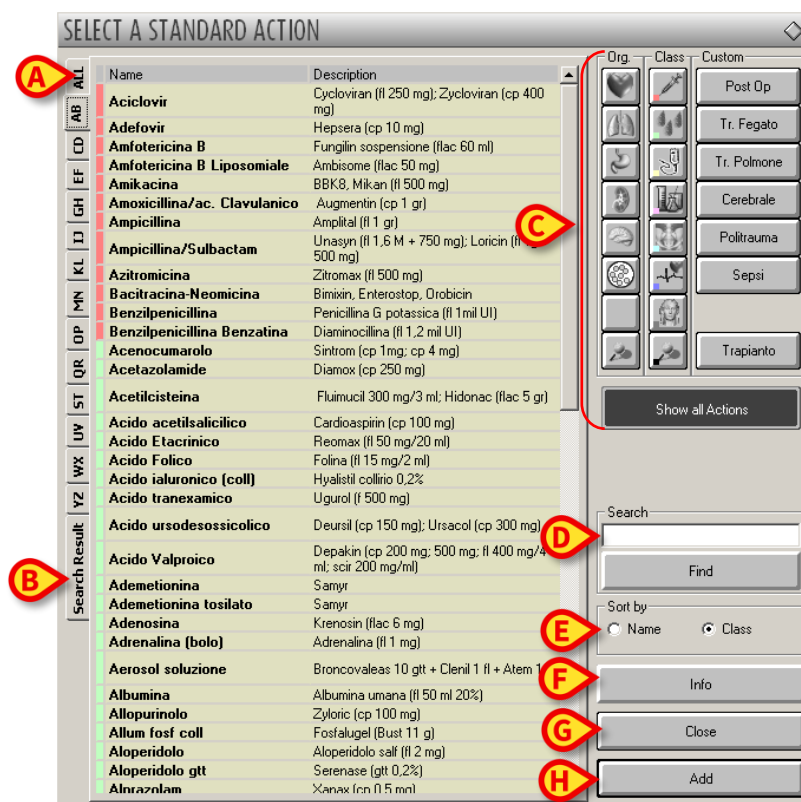


Fig 24

The **All** label (Fig 24 A) displays the treatments full list again.

The **Search Result** label (Fig 24 C) displays the results list of the last search performed.



If the name of a treatment appears in blue characters it means that the treatment is related to an external drug management system (for instance: a cabinet or a stockroom). Please contact the technical assistance for more information.

3.1.2. Filter buttons

The filter buttons shown in Fig 25 and Fig 24 C make it possible to display a selected subset of treatments.

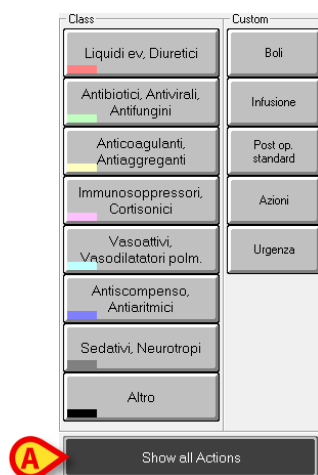


Fig 25 - Filter buttons

There are three two different kinds of filters:

1. The “Class” filters reflect the treatment classes explained in paragraph 2.4;
2. The “Custom” filters can be defined by the system administrators according to the needs of the clinical staff.



The list of treatment displayed on the window can be reduced selecting more than one filter at the same time.

The **Show All Actions** button (Fig 25 A) displays the treatments full list again.

3.1.3. Search strings

A specific search tool (Fig 24 D and Fig 26) makes it possible to find the wanted treatment typing a string of characters that are part of the treatment’s name or description.



Fig 26 - Treatment search

To perform a search

- type the treatment name in the search field.
- Click the **Find** button.

The system will display the list of all the treatments whose name (or description) contains the specified string.

3.1.4. Sort results

The “radiobuttons” placed below the search field (Fig 24 E, Fig 27) make it possible to change the treatments display mode.

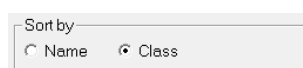


Fig 27 - Sort results by

When the list is sorted “by name” the treatments are displayed in alphabetical order. When the list is sorted “by class” the treatments belonging to the same class are grouped together. The items within the same class are displayed in alphabetical order.

3.1.5. Treatment Information

The **Info** button (Fig 24 F) opens a page containing information on the selected treatment. The contents of the page must be configured by the system administrator.

3.1.6. Close window

The **Close** button (Fig 24 G) closes the treatment selection window.

3.1.7. Add treatment to the patient plan

The **Add** button (Fig 24 H) makes it possible, once a treatment on the window is selected, to add the treatment to the patient treatment plan. See paragraph 3.2 for a summary of the complete procedure.

3.2. How to add a treatment to the patient plan

To add a new treatment to the patient treatment plan:

- Click the **New** button on the command bar (Fig 28).



Fig 28 - Command Bar

The window shown in Fig 29 will open.

- Search the wanted treatment using the tools described in the previous paragraphs (3.1).
- Click the treatment to be prescribed.

The corresponding row will be highlighted (Fig 29 A).

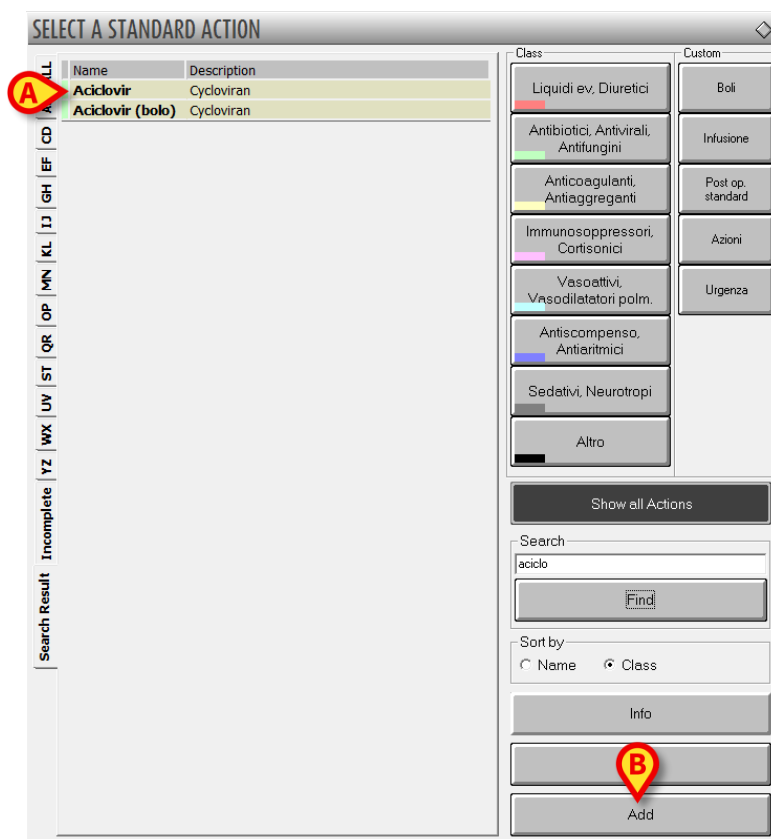


Fig 29

- Click the **Add** button (Fig 29 B).

A window making it possible to specify the wanted kind of prescription will open (Fig 30).

Fig 30

- Select the kind of prescription using the buttons indicated in Fig 30 A.

A window enabling to specify all the prescription details will open (Fig 31 shows an example of “Daily” prescription).

i

The treatment can be configured to enable only one possible kind of prescription. If this is the case the selection buttons shown in Fig 30 A are not displayed and the specification window (see Fig 31 for an example) is instead directly displayed.

ACTION EDITING

Aciclovir
Cycloviran

QUANTITY/DOSE Copy to note

Amount: 2 mg | Volume: 100 mL | Solution Speed: 100 mL/h | Drug Speed: 0,0227 mg/kg/h | Duration: 1 h

Way: ev | Diluent: Soluzione Fisiologica

Patient weight: 88 kg. Concentration 0,02 mg/mL; Total volume: 100 mL

DAILY Reset Predefined

Starting from: 19/01/2018 10:00 | Tolerance: 00:30

Schedule: 2 ▲▼

Times													
06	07	08	09	10	11	12	13						
14	15	16	17	18	19	20	21						
22	23	+00	+01	+02	+03	+04	+05						
+06	+07	+08	+09	+10	+11	+12	+13						

☒ One day only ☐ Repeat every day Preview orders

NOTES

Notes:

History:

Date/Time	Auth	Status	Details
-----------	------	--------	---------

Default **Prescribe** Cancel

Fig 31 - Daily prescription

- Specify the prescription details.
- Click the **Prescribe** button (Fig 31 A).

The treatment is this way added to the patient treatment plan. A row corresponding to the new prescribed treatment appears on the prescription table.



The window shown in Fig 29 is described in detail in paragraph 3.1.

The window shown in Fig 30 and the detailed prescription specification procedures are described in paragraph 4.

4. The treatment specification window

This paragraph describes the treatment specification window shown in Fig 30 and Fig 32.

After treatment selection (**Add** button - Fig 29 **B**), a window making it possible to specify the details of the selected treatment appears (Fig 32).


The screenshot shows the 'ACTION EDITING' window for the treatment 'Aciclovir'. The window is divided into several sections:

- QUANTITY/DOSE**: Contains input fields for Amount (2 mg), Volume (100 mL), Solution Speed (100 mL/h), Drug Speed (0,0227 mg/Kg/h), and Duration (1 h). It also has dropdown menus for Way (ev) and Diluent (Soluzione Fisiologica).
- Patient weight**: 88 kg. **Concentration**: 0,02 mg/mL. **Total volume**: 100 mL.
- SCHEDULE**: A row of six icons representing different scheduling options: Immediate, Conditional, Daily, Weekly, Schema, and Custom.
- NOTES**: A text area for notes.
- History**: A table with columns Date/Time, Auth, Status, and Details.
- Buttons**: Default, Prescribe, and Cancel buttons at the bottom right.

Annotations: A red circle labeled 'A' points to the treatment name 'Aciclovir' in the top left. A red circle labeled 'B' points to an information icon (i) in the top right.

Fig 32 - Prescription

The treatment name is displayed on the upper-left corner of the window (Fig 32 **A**). Under the treatment name additional information can be displayed (specific name, possible dosages etc.).

The  button on the right (Fig 32 **B**) opens a page containing detailed information on the treatment.

The window is divided in several areas, each one dedicated to a specific sub-set of features of the prescription.

Please remember that every treatment is configured to enable the specification of its relevant values and is characterized by specific default values. Thus the specification window changes according to the kind of treatment selected.

It is also possible to set by configuration the automatic selection of the treatment's administration plan (conditional, weekly, daily, schema etc...). In those case the relevant window is automatically

displayed (i.e. there is no need to select the kind of administration using the buttons described in paragraph 4.2).



Any relevant action can be configured as prescribable treatment. Every configured action is characterized by its relevant parameters and default values. Therefore the aspect and features of the treatment specification window depend on the treatment prescribed.

4.1. The “Quantity/Dose” area

Use the “Quantity/Dose” area (Fig 33) to specify the dosages and the administration way. The number and nature of the parameters displayed in this area depend on the specific treatment selected. The kind of treatment is defined by configuration.

Seven different treatment types can be defined. For each one of them the user can specify the values that are necessary to define the prescription details. The seven types are here listed:

1 - Standard infusion.

Fig 33

2 - Standard bolus

Fig 34

3 - Infusion with blocked concentration (pro-kilo quantity and volume cannot be changed)

QUANTITY/DOSE Copy to note

Amount mg 150	Volume mL 50	Solution Speed mL/h 200	Drug Speed mg/Kg/h 0,0341	Duration h 1
Way ev		Diluent Soluzione Fisiologica		

Patient weight: 88 kg. Concentration 0,015 mg/mL; Total volume: 200 mL

Fig 35

4 - Solution (for example "Saline solution")

CANTIDAD/DOSIS Copiar a nota

Volume mL 24	Velocidad de la solución mL/h 1	Duración h 24	Modo ev
Diluyente			

Peso del paciente: 6,5 kg.

Fig 36

5 - Simple Action (For example "Weigh patient")

QUANTITY/DOSE Copy to note

No Quantity/Dose information

Fig 37

6 - Action with quantity

QUANTITY/DOSE Copy to note

Cantidad glt 1	Way os
----------------------	-----------

Fig 38

7 - Infusion with concentration. In this kind of prescription the user, using the button indicated in Fig 39 A, can decide which is the value that stays fixed and which values change. The other values change according to what specified by the user as fixed value.

ACTION EDITING

Aciclovir (conc.)

Cycloviran

QUANTITY/DOSE

Concentration: mg/mL

Solution Speed: mL/h

Drug Speed: mg/kg/h


Duration: 1 h

Way: ev

Diluent:

Copy to note

Fig 39

The values in the different fields can be inserted using the keyboard or gradually changed using the arrow buttons placed alongside the field -  -.

For each treatment standard values can be pre-configured. It is anyway possible for the user to change them according to the prescription needs.

The values in the different fields can also be correlated through an algorithm that calculates the missing values starting from those specified by the user.

The button “**Copy to notes**” (Fig 40 A) placed on the upper-right corner of the Quantity/Dose area makes it possible to automatically add a note indicating the dose and quantity values (Fig 40 B).

ACTION EDITING

Aciclovir
Cycloviran

QUANTITY/DOSE

Amount: 3 mg
Volume: 150 mL
Solution Speed: 150 mL/h
Drug Speed: 0,0341 mg/Kg/h
Duration: 1 h

Way: ev
Diluent: Soluzione Fisiologica

Patient weight: 88 kg. Concentration 0,02 mg/mL; Total volume: 150 mL

DAILY

Starting from: 19/01/2018 10:00 Tolerance: 00:30

Schedule: 3 Times

06	07	08	09	10	11	12	13
14	15	16	17	18	19	20	21
22	23	+00	+01	+02	+03	+04	+05
+06	+07	+08	+09	+10	+11	+12	+13

One day only
Repeat every day

NOTES

Patient weight: 88 kg. Concentration 0,02 mg/mL; Total volume: 150 mL

History

Date/Time	Auth	Status	Details

Default
Prescribe
Cancel

Fig 40

This makes it easier to read the prescription data on the administration screen (Fig 41).



Fig 41

The small “N” indicated in the figure shows that there is a note for this prescription. When the mouse pointer is placed on the “N”, a box containing the full text of the note is displayed. See paragraph 6 for the treatment administration documentation procedure.

4.2. The “Schedule” area

Use the “Schedule” area (Fig 42) to specify “when” and “how many times” a treatment must be administered.

Six “schedule” types are available. A type can be selected by the buttons indicated in Fig 42 A.

Once the type is selected it is possible to specify the treatment schedule details.



It is possible to set by configuration the automatic plan type selection (conditional, weekly, daily, schema etc...). In those cases the relevant window is automatically displayed (i.e. there is no need to select the kind of administration using the buttons described in this paragraph).

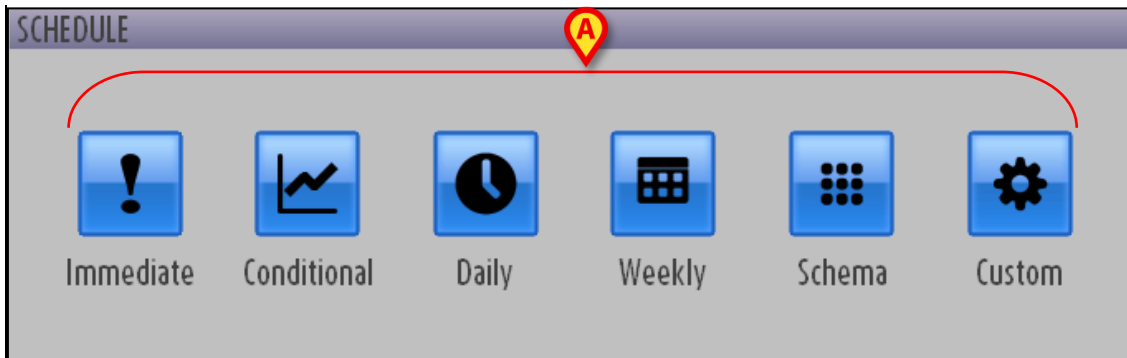


Fig 42 - “Schedule” area

These are the possible plan types:



IMMEDIATE

The treatment prescribed must be administered immediately. See paragraph 4.2.1.



CONDITIONAL

The treatment prescribed must be administered only under certain conditions. See paragraph 4.2.2.



DAILY

The treatment prescribed refers to one day. See paragraph 4.2.3.



WEEKLY

The treatment prescribed refers to one week. See paragraph 4.2.4.



SCHEMA

Use this kind of prescription to define a schema like (for example) “administer this treatment 4 times in 3 days”. See paragraph 4.2.5.




CUSTOM

The treatment plan is completely customized. The orders that must be generated are all explicitly stated. See paragraph 4.2.6.

4.2.1. Immediate administration prescription

“Immediate administration” means that the treatment prescribed must be administered immediately.

To prescribe an immediate administration

- click the  icon on the prescription window.

The “Schedule” area on the window will change in the way shown in Fig 43.

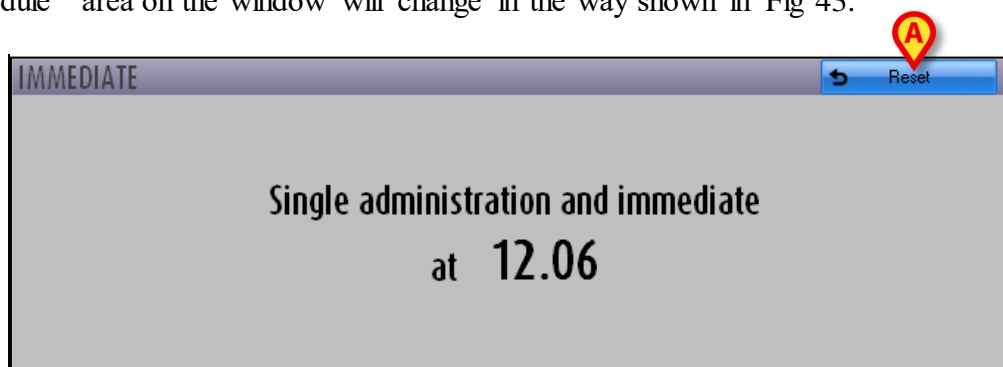


Fig 43


The window states that a single immediate administration is being ordered. The administration time (that is present time) is specified as well.

The **Reset** button on the top-right corner (Fig 43 A) makes it possible to go back to the selection window shown in Fig 42.

4.2.2. Conditional administration prescription

“Conditional administration” means that the treatment prescribed must be administered only under certain conditions.

To add a conditional prescription

- click the  icon on the prescription window.

The window will change in the following way

Fig 44 - Conditional prescription

- Specify in the area indicated in Fig 44 **A**, the administration condition, i.e. the condition that “triggers” the treatment administration.

Use the “radiobuttons” indicated in Fig 44 **B** to specify whether the treatment will be administered only once or it will be kept in the treatment plan to be repeated in the future.

i

Conditional prescriptions are characterized by “purple” color on the prescriptions table (Fig 45, paragraph 2.3).

Paracetamolo (bolo) ev, 1000 mg, Only if patient...

Fig 45

Conditional prescriptions are characterized by “purple” color in the corresponding boxes on the “Therapy Execution” module (Fig 46, paragraph 6.3).

Paracetamolo (bolo) 1000^{mg}_{ev} Only if patient...


Fig 46

In case you want to go back to the selection window shown in Fig 42, use the **Reset** button on the top-right corner.

4.2.2.1. Standard phrases for the condition specification

It is possible to use pre-defined “Standard phrases” to rapidly indicate the administration conditions.

To insert a “Standard phrase”

- click the  button indicated in Fig 44 C.

The following window opens

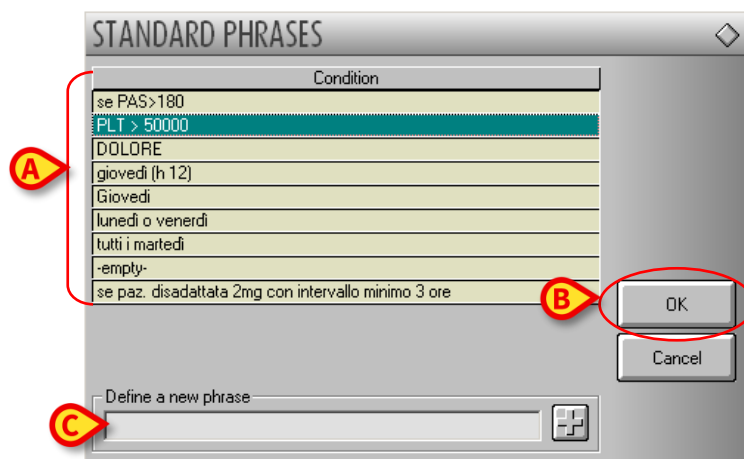


Fig 47 - Standard phrase selection

- Click the relevant phrase. The phrase is this way highlighted (Fig 47 A).
- Click the **Ok** button (Fig 47 B). The selected phrase is inserted as condition in the prescription window.

4.2.2.2. New standard phrase

To define a new standard phrase

- click the field indicated in Fig 47 C.

A cursor appears in the field.

- Type the new standard phrase (Fig 48).

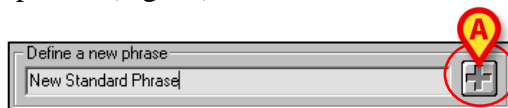



Fig 48 - New standard phrase

- Click the  button placed alongside the field (Fig 48 A).

The new phrase is this way added to those already existing (Fig 49 A).

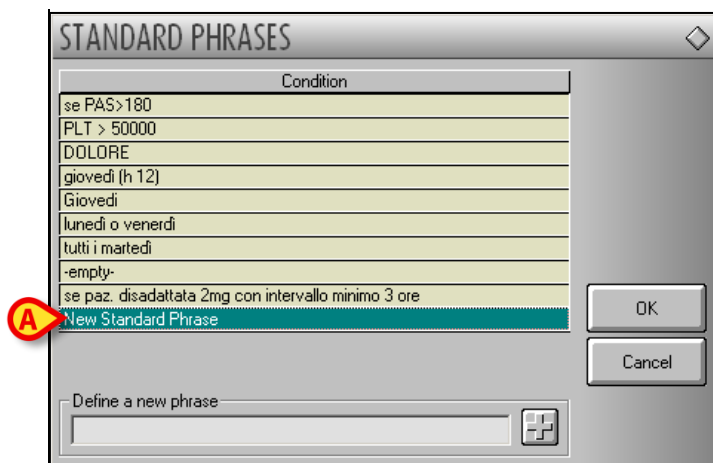



Fig 49

4.2.3. Daily treatment prescription

The prescription of a daily treatment makes it possible to generate the administration orders for one day.

To prescribe a daily treatment

- click the  icon on the prescription window.

The window changes in the following way.

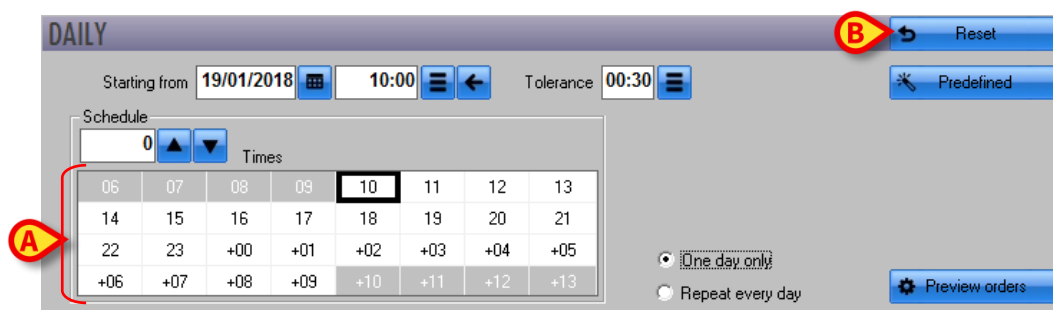


Fig 50 - Daily treatment prescription

The window shown in Fig 50 contains several tools making it possible to specify the prescription details. The next paragraphs describe these tools.

In case you need to go back to the selection window shown in Fig 42, click the **Reset** button on the top-right corner (Fig 50 B).

4.2.3.1. Administration time specification

Use the “plan” area (indicated in Fig 50 A) to specify the treatment administration times.

The table shown in Fig 51 displays the full hours of the day. Each cell corresponds to a specific hour. The first selectable cell corresponds by default to the closest full hour preceding the current time (for example, if it is 12:30 the first selectable cell is 12:00). 24 cells are selectable (corresponding to 24 hours).

Schedule

0 ▲ ▼ Times

8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
+0	+1	+2	+3	+4	+5	+6	+7
+8	+9	+10	+11	+12	+13	+14	+15

Fig 51

To select a time

- click the corresponding cell.

The selected cell is highlighted red (Fig 52).

Schedule

1 ▲ ▼ Times

8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
+0	+1	+2	+3	+4	+5	+6	+7
+8	+9	+10	+11	+12	+13	+14	+15

Fig 52 - One administration at 15:00

To deselect a time, click again the corresponding cell. The red cell goes back to white.

It is also possible to specify the number of daily administrations of the treatment.

To do that

- type the number of administrations in the field indicated in Fig 53 A.

The system automatically places the administrations at proper times.

Schedule

4 ▲ ▼ Times

8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23
+0	+1	+2	+3	+4	+5	+6	+7
+8	+9	+10	+11	+12	+13	+14	+15

Fig 53

In Fig 53, for example, the user specified that the treatment must be administered 4 times in 24 hours. The system automatically placed the administration orders at 6 hours intervals, with the first administration set at the next selectable time (13:00 o'clock). This scheme can be edited by the user either selecting or deselecting the relevant times (click the corresponding cell to operate).



If the user sets a time manually and, after that, makes use of the above-described functionality (i.e. he/she indicates the number of administration orders as in Fig 53 A), the system places the administration orders at regular intervals starting from the time specified by the user.

If the user sets two or more times manually and, after that, makes use of the above-described functionality (i.e. he/she indicates the number of administration orders as in Fig 53 A), the system places the administration orders at regular intervals starting from the first time specified by the user and ignoring the other times indicated.

4.2.3.2. Treatment start time specification

Current day is, by default, the relevant day for the treatment specification. Current time is, by default, the treatment start time (i.e. if it is 12:30 the time indicated by default is “12:00”).


It is possible to indicate a different date/time as treatment start time. Namely, it is possible to specify a treatment beginning in a future day and/or at a future time. The values indicated in Fig 54 A specify the treatment start time.

Dedicated tools are available to set these values.

06	07	08	09	10	11	12	13
14	15	16	17	18	19	20	21
22	23	+00	+01	+02	+03	+04	+05
+06	+07	+08	+09	+10	+11	+12	+13

Fig 54 - Daily treatment prescription

To change the start date

- click the  button placed alongside the date.

A calendar-window opens (Fig 55).

25	26	27	28	29	30	31
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Fig 55 - Calendar

- Select the start date

- Click the **Ok** button on the calendar.

The new start date is displayed, highlighted yellow, on the prescription window.

To change the start time

- click the  button placed alongside the time currently selected.

A menu containing several options appears (Fig 56).

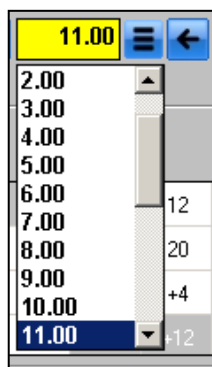



Fig 56

- Click the option corresponding to the wanted start time.

The selected start time remains, highlighted yellow, on the prescription window. The table described in paragraph 4.2.3.1 changes accordingly.

The  button can be clicked to set the current time/date back.

4.2.3.3. Tolerance time specification

The “Tolerance” box highlighted in Fig 54 **B** makes it possible to set the tolerance period for the administration.

“Tolerance” is the time interval preceding and following the specified administration time within which the administration is considered “on time”.

If a tolerance of 15 minutes is indicated for an administration prescribed for 11:00 o’clock, the administration is on time if performed from 10:45 to 11:15.

4.2.3.4. Treatment plan repeatability

The “Radiobuttons” indicated in Fig 54 **C** specify whether the administration must be administered once (“One day only” button) or it must be kept on the treatment plan for further administrations (“Repeat every day” option). See paragraph 1.3.2 for the explanation of “Prescription repeatability”.

4.2.3.5. Predefined plan

The **Predefined** button indicated in Fig 57 **A**, opens a window making it possible to select a treatment plan from a list of pre-defined options.

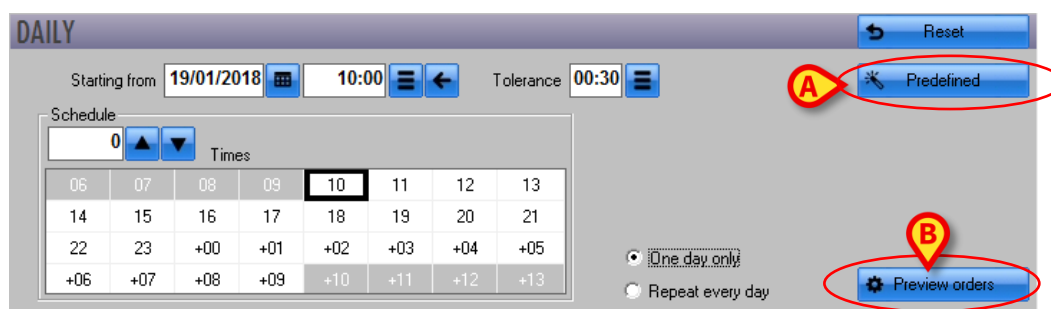


Fig 57 - Daily treatment prescription

To select a pre-defined plan

- click the **Predefined** button. A dedicated window opens
- Click, on the window, the option corresponding to the wanted plan.

The option will be highlighted.

- Click **Ok**. The values on the prescription window will change accordingly.



The pre-defined treatment plans are created during configuration by the system administrators.

4.2.3.6. Orders preview

The **Preview Orders** button indicated in Fig 57 **B** opens a window that summarizes in a list all the orders that will be generated by the treatment plan currently specified (Fig 58).

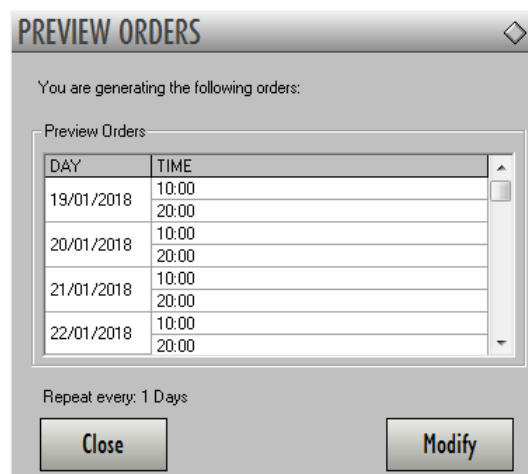


Fig 58 - Orders preview

The “Orders preview” window displays in a table all the orders that will be generated. The scheduled administration date and time are specified for each order.



In case of repeatable prescriptions the “Orders preview” window displays the orders that will be generated in the first seven days. See paragraph 1.3.2 for an explanation of the “prescription repeatability”.

Use the **Close** button to close the “Orders preview” window.

Use the **Modify** button to modify the treatment plan, i.e. to add or remove orders and to change their times.

To do that

- click the **Modify** button.

A message box will be displayed, indicating that it will not be possible, after the changes, to go back to the original values.

- Click **Yes** to proceed.

The custom prescription functionalities are this way enabled (Fig 59). These functionalities are described in paragraph 4.2.6.

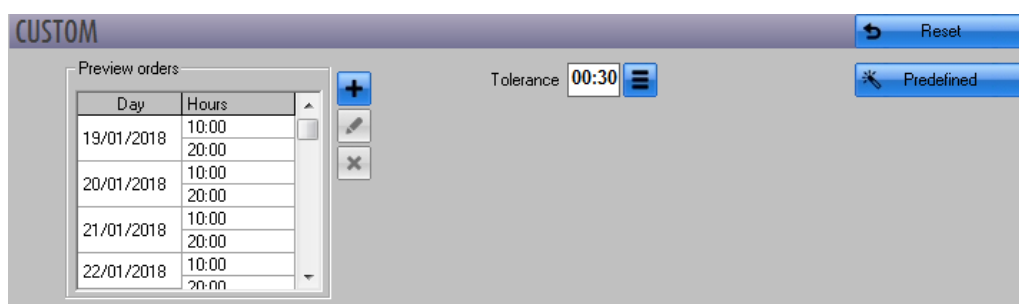



Fig 59 - Custom prescription functionalities

4.2.4. Weekly treatment prescription

Use the “weekly treatment prescription” option to specify the treatment’s administration orders for one week.

To prescribe a weekly treatment

- click the  icon on the prescription window.

The window changes in the following way (Fig 60).

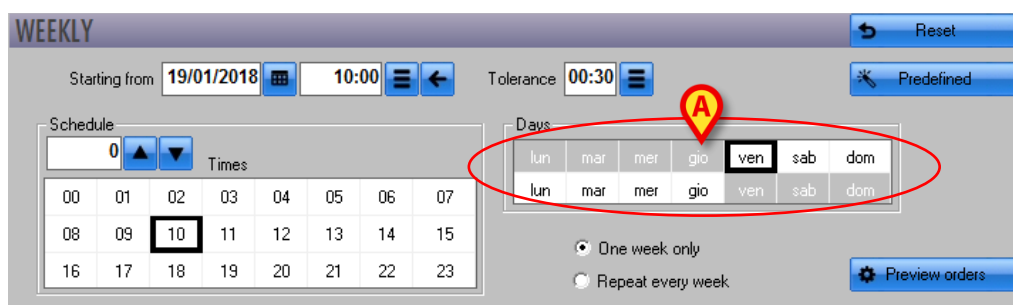


Fig 60 - Weekly plan prescription

This window contains all the options and functionalities already described for the daily prescription plan. These functionalities are explained in the following paragraphs:

- 4.2.3.1 - Prescription times specification;
- 4.2.3.2 - Treatment start time/date specification;
- 4.2.3.3 - Tolerance specification;
- 4.2.3.4 - Treatment plan repeatability (repeatability is referred in this case to the weekly plan);
- 0 - Pre-defined plan selection;
- 4.2.3.6 - Orders preview.

The above-described functionalities are integrated by a window making it possible to select the administration weekdays (Fig 60 A).

To select a day

- click the corresponding cell.

The cell turns red (Fig 61). Click the cell again to deselect it.



Fig 61 - Days selection

When prescribing a weekly treatment plan it is necessary to specify both the administration times and the administration days.

Schedule

2

▲▼

Times

0	1	2	3	4	5	6	7
8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23

Days

lun	mar	mer	gio	ven	sab	dom
lun	mar	mer	gio	ven	sab	dom

☒ One week only
 ☐ Repeat every week

Preview orders


In Fig 62, for example, the treatment must be administered at 14:00 and at 18:00 on Wednesday and Friday. Thus 4 administration orders will be generated.

If the treatment is repeatable (by selecting the “radiobutton” indicated in Fig 62 A - “Repeat every week”) the system generates every week 4 administration orders at 14:00 and 18:00 on Wednesdays and Fridays.

4.2.5. Treatment prescription schema

Use the “Treatment prescription schema” option to specify a prescription like the following: “Administer this treatment N times in N days (4 times in 3 days, for instance)”. The system calculates the appropriate time intervals and places the administration orders starting from the time indicated in the “Starting from” field.

To use this option

- click the  icon on the prescription window.

The window changes in the following way (Fig 63).

SCHEMA

Reset

Starting from

19/01/2018

12:00

Tolerance

00:30

Predefined

Execute

At interval of

In

Times

Hours

Hours

Only one

Repeat

Preview orders

Fig 63 - Dictionary

Some of the functionalities described regarding the daily and weekly treatment plan prescriptions are here maintained. See the paragraphs indicated below for these functionalities:

- 4.2.3.2 - Treatment start time/date specification;
- 4.2.3.3 - Tolerance specification;
- 4.2.3.4 - Treatment plan repeatability (repeatability is referred in this case to the specified schema);
- 0 - Pre-defined plan selection;
- 4.2.3.6 - Orders preview.

Use the tools highlighted in Fig 63 **A** and Fig 64 to define the schema.

Fig 64

To define a schema,

- use the “radiobuttons” indicated in Fig 64 A to select the appropriate option for the wanted schema.

The “Administer” option makes it possible to specify the treatment’s period (every how much time) and duration (in how much time). The system automatically calculates the number of administrations. For example: if the user indicates that a treatment must be administered every 3 hours in 8 hours the system calculates 3 administrations (one now, one after 3 hours, one after 6 hours).

The “Intervals” option makes it possible to specify the number of administrations and the treatment’s duration (in how much time). The system automatically calculates the treatment’s period (every how much time the orders must be administered). For example: if the user indicates that a treatment must be administered 3 times in 8 hours the system calculates a 2,7 hours period.

The “In” option makes it possible to specify the number of administrations and the treatment’s period (every how much time). The system automatically calculates the treatment’s duration (in how much time the orders must be administered). For example: if the user indicates that a treatment must be administered 3 times every 2 hours the system calculates a 6 hours duration.

- Specify the relevant values in the fields indicated in Fig 64 B.


Use the  button indicated in Fig 65 A to specify the schema’s unit of measure (hours, days, minutes). The system automatically turns the specified value into the appropriate unit of measure (more than 119 minutes is turned to hours, more than 47 hours is turned to days).


Fig 65

Select the option indicated in Fig 65 B to specify a repeatable schema. The repeatability period is the schema duration. In the example shown in the figure the schema is repeated every 8 hours. See paragraph 1.3.2 for a description of repeatable treatments.

4.2.6. Custom treatment plan prescription

It is possible to prescribe a treatment plan that is completely decided by the user. In these cases the orders are all explicitly specified, one by one.

To prescribe a custom treatment plan

- click the  icon on the prescription window.

The window changes in the following way (Fig 66).

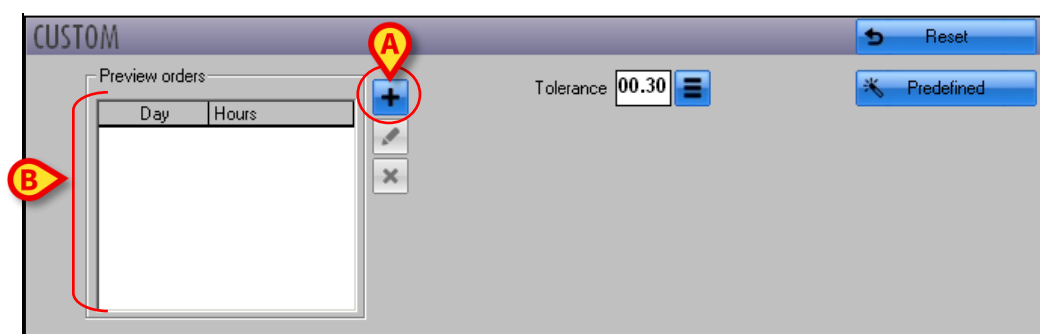


Fig 66 - Custom treatment plan specification

- Click the  button indicated Fig 66 A.

A window making it possible to specify the treatment date and time opens (Fig 67). Current date and time are set by default.

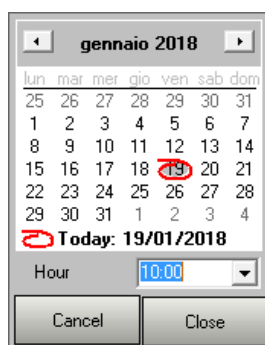


Fig 67

- Specify the order's date and time.
- Click the **Close** button.

A row will be added to the "Orders preview" table (Fig 68, Fig 66 B). The row indicates the treatment's date and time.

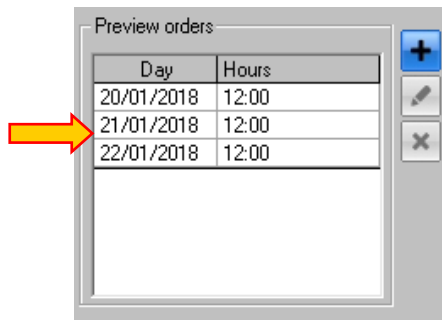


Fig 68

4.2.6.1. Editing the order values

To edit the values of an order

- click the row corresponding to the order that must be edited (click it on the cell displaying the time).

The row is highlighted (Fig 69 A). The buttons indicated in Fig 69 B are active.

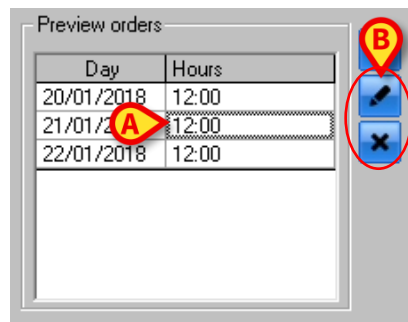


Fig 69

- Click the  button.

A calendar window appears, displaying the values of the selected order (date and time).

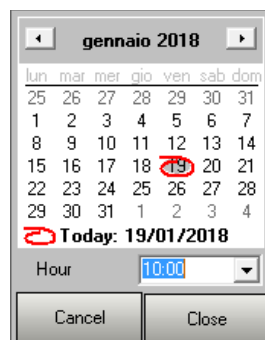


Fig 70

- Edit the order values.
- Click the **Close** button.

The order's values are this way changed.

4.2.6.2. How to delete an order

To delete one of the specified orders,

- click the row corresponding to the order that must be deleted (click the cell displaying the time).

The row is highlighted (Fig 69 A). The buttons indicated in Fig 69 B are active.

- Click the  button. The order is this way deleted.

4.2.6.3. Other options on the custom prescription window

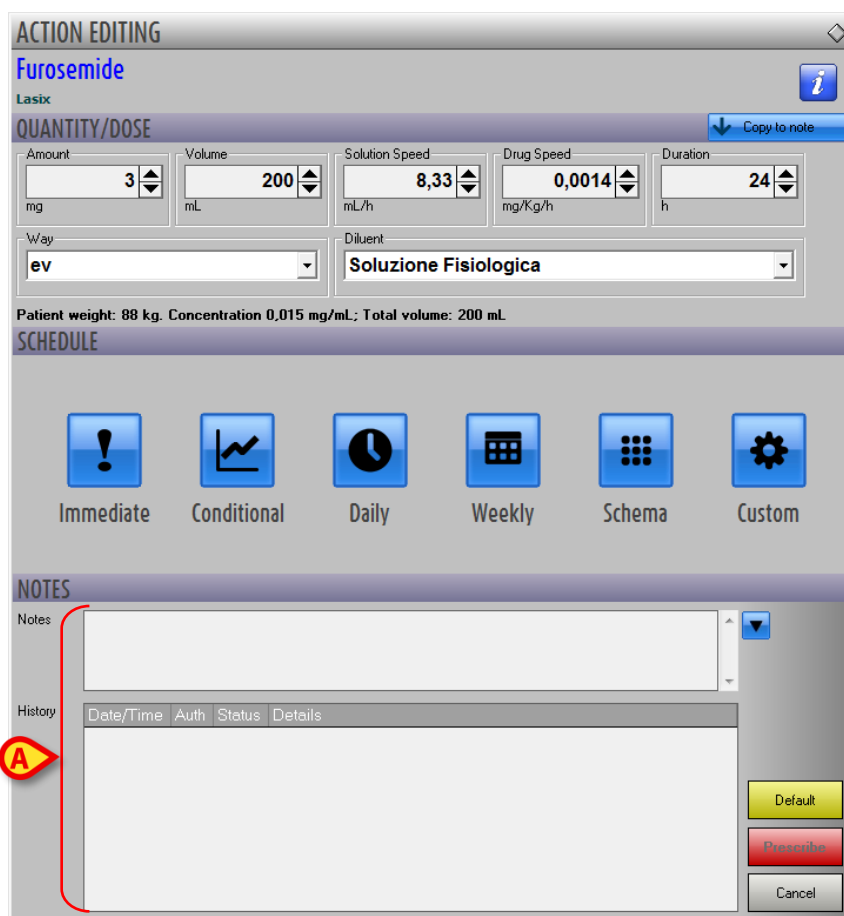
Some of the functionalities that have been described before relating the daily and weekly treatment plan prescriptions are here maintained. See the paragraphs indicated below for these functionalities:

- 4.2.3.3 - Tolerance specification;
- 0 - Pre-defined plan selection;

4.3. The “Notes” area

The “Notes” area on the prescription specification window (Fig 71 A) makes it possible to:

- 1) add a note to the prescription;
- 2) read about the past prescriptions of the same treatment.



ACTION EDITING

Furosemide
Lasix

QUANTITY/DOSE

Amount: 3 mg, Volume: 200 mL, Solution Speed: 8,33 mL/h, Drug Speed: 0,0014 mg/Kg/h, Duration: 24 h

Way: ev, Diluent: Soluzione Fisiologica

Patient weight: 88 kg. Concentration 0,015 mg/mL; Total volume: 200 mL

SCHEDULE

Immediate, Conditional, Daily, Weekly, Schema, Custom

NOTES

Notes

History

Date/Time	Auth	Status	Details

Default, Prescribe, Cancel

Fig 71 - Notes area

4.3.1. How to add a note

To add a note

- click the “Notes” field (Fig 72 A).

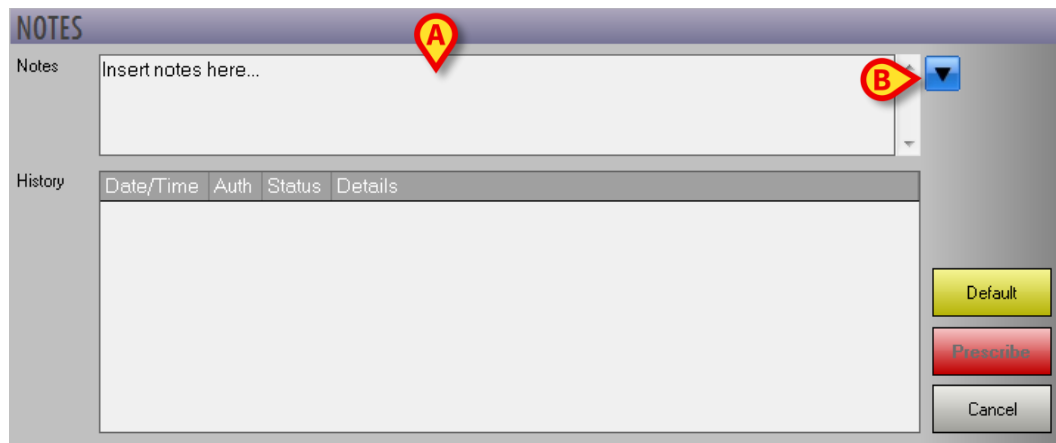


Fig 72

- Specify the note.

The notes are visible on the prescribed treatments table when the **Show Notes** button is selected on the command bar (see paragraph 5.6).



The notes added using these functionalities are referred to the treatment prescription, not to the patient. The patient notes are specified through the procedure described in paragraph 5.11.

4.3.1.1. Standard phrases for notes specification

Pre-defined “Standard phrases” can be used to speed-up the notes specification.

To add a standard phrase

- click the arrow button on the right (Fig 72 B).

The following window opens (Fig 73).

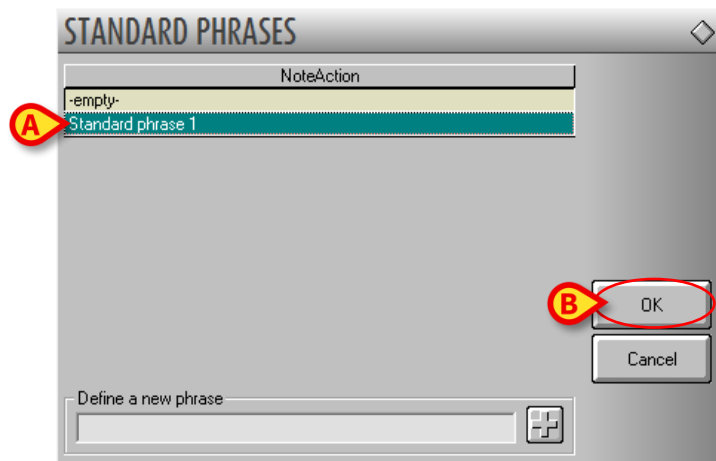


Fig 73 - Standard Phrases

The window shown in the figure contains the list of all the pre-defined phrases.

- Click the wanted phrase.

The phrase is highlighted (Fig 73 A).

- Click the **Ok** button (Fig 73 B).

The phrase is displayed in the “Notes” field.

It is possible for an authorized user to add a new standard phrase to the existing list.

To define a new phrase

- click the **Notes** button (Fig 72 B).

The “Standard phrases” window opens (Fig 74).

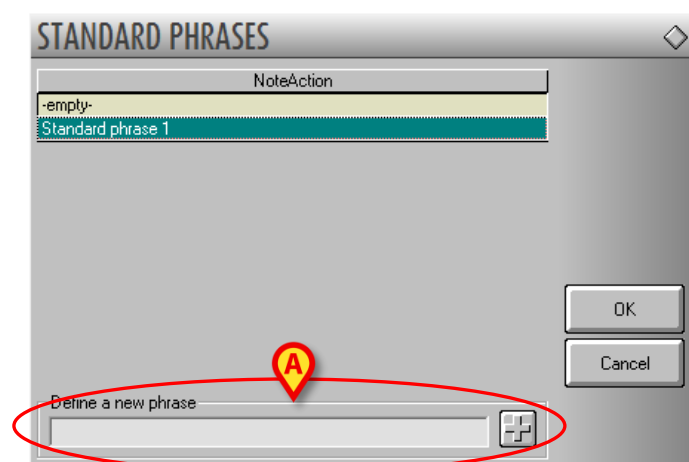


Fig 74 - Standard Phrases

- Click the “Define a new phrase” field (Fig 74 A).

- Type the new standard phrase (Fig 75 A).

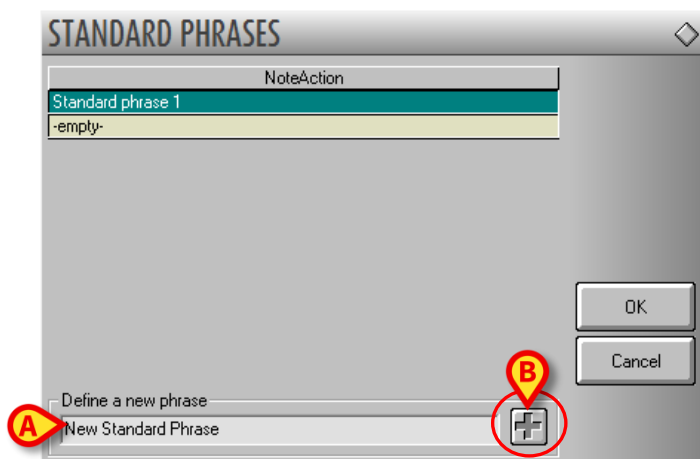



Fig 75 - New standard phrase

- Click the  button placed alongside the field (Fig 75 B).

The new phrase is this way added to the standard phrases list (Fig 76) and will be available in the future.

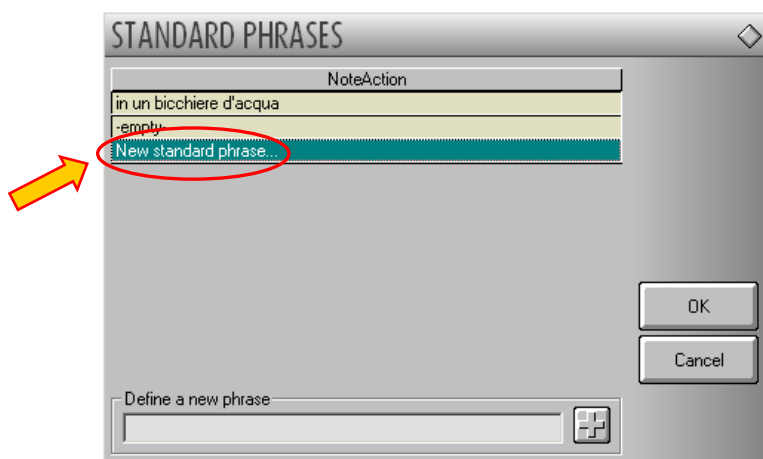


Fig 76

The phrase can be inserted in the “Notes” field (Fig 77) using the procedure described in paragraph 4.3.1.

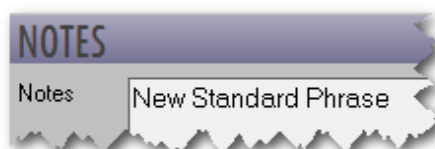
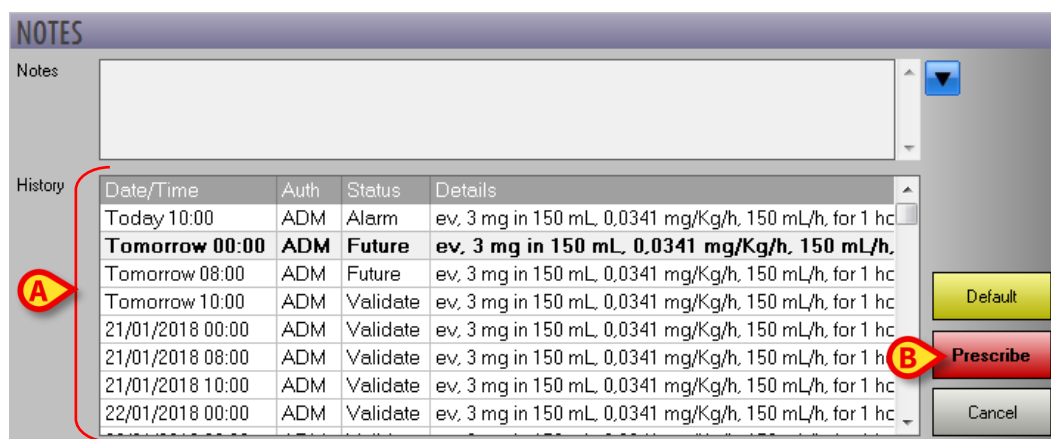


Fig 77

4.3.2. Treatment history

The history area (Fig 78 A) displays a table containing the main information on the previous orders that were generated for that treatment.



Date/Time	Auth	Status	Details
Today 10:00	ADM	Alarm	ev, 3 mg in 150 mL, 0,0341 mg/Kg/h, 150 mL/h, for 1 hc
Tomorrow 00:00	ADM	Future	ev, 3 mg in 150 mL, 0,0341 mg/Kg/h, 150 mL/h,
Tomorrow 08:00	ADM	Future	ev, 3 mg in 150 mL, 0,0341 mg/Kg/h, 150 mL/h, for 1 hc
Tomorrow 10:00	ADM	Validate	ev, 3 mg in 150 mL, 0,0341 mg/Kg/h, 150 mL/h, for 1 hc
21/01/2018 00:00	ADM	Validate	ev, 3 mg in 150 mL, 0,0341 mg/Kg/h, 150 mL/h, for 1 hc
21/01/2018 08:00	ADM	Validate	ev, 3 mg in 150 mL, 0,0341 mg/Kg/h, 150 mL/h, for 1 hc
21/01/2018 10:00	ADM	Validate	ev, 3 mg in 150 mL, 0,0341 mg/Kg/h, 150 mL/h, for 1 hc
22/01/2018 00:00	ADM	Validate	ev, 3 mg in 150 mL, 0,0341 mg/Kg/h, 150 mL/h, for 1 hc

Buttons: Default, Prescribe, Cancel

Fig 78 - Treatment history

In the table each row corresponds to an action referred to a certain order.

For each action the following information is provided:

- action date and time;
- acronym of the user who performed the action;
- kind of action performed;
- action details.

4.3.2.1. How to restore the prescription default values

If, after editing the prescription values, it is necessary to restore the prescription default values,

- click the **Predefinito** button on the “Notes” area, indicated in Fig 78 **B**.

All the changes will be lost; the prescription default values will be restored.

4.3.3. Prescription window configurability

Virtually any kind of action can be added to the actions list, with its specific features (values, parameters, default values etc...).

The treatment specification window changes accordingly. Thus changes the way the treatment specification window looks like.



The look and functionalities of the prescription specification window depend on the kind of treatment specified.

Refer to the system administrators for the treatments configuration.

4.4. Prescription with double signature

A treatment can be configured to require a double signature at prescription time. I.e. it is necessary that a second user, different from the one that prescribed the treatment, validates the prescription and validate this way the orders that are generated. See the example shown in Fig 79.

Fig 79

The double signature requirement is indicated in Fig 79 A.

Once the treatment is prescribed, the administration orders have to be validated by another user. These orders are characterized by the 🖐 icon both on the prescription module (Fig 80) and on the administration module (Fig 81).

Fig 80



Fig 81

See paragraph 1.3.6 for an explanation of the “orders validation” procedure.

In this particular case the order can be validated only by the second signature on the prescription module. To double sign the prescription, use the following procedure:

- Click the **Sign** button on the command bar (Fig 82 A).

Fig 82

The following window opens (Fig 83)



Fig 83

The window lists all the prescriptions waiting the second signature for validation (Fig 83 A).

- Select the checkbox corresponding to the prescriptions to be signed (first column on the left).
- Insert your username and password (Fig 83 B)
- Click the **Sign** button (Fig 83 C).

The prescription is this way validated.

The “Current user” (Fig 83 D) automatically fills the username field with the name of the user currently logged. Deselect the checkbox to insert a different username.



The double signature procedure can be set separately for the prescription and the administration of the treatment. I.e. a treatment can require the second signature at prescription time and not require it at administration time and vice versa.



The second signature is not required if, at prescription time, the prescription is indicated as emergency (check the flag indicated in Fig 79 B). In case of emergency prescription, it is possible to prescribe only one administration. Time of administration can be from current time to four hours before current time.

5. The command bar

The command bar of the “Therapy Prescription” module (Fig 7 D, Fig 84) is formed by several function-buttons.

LARGE FONT	SHOW NOTES	ALL PRESCRIPTIONS	TIME PLAN	INFO	DETAILS		NOTES	PRINT
NEW	EDIT	REMOVE	SUSPEND	RESUME	REMOVE COMPLETED		SIGN	UPDATE

Fig 84 - Command bar

Each button gives access to a specific functionality. This paragraph describes the functionalities activated by each button.

5.1. Treatment plan update



To understand this paragraph - 5.1 - and the following one - 5.1.1 - it is necessary a good understanding of the basic concepts explained in paragraph 1.3.

The treatment plan update procedure makes it possible to

- validate the orders that are within the “Therapy cycle” that have not yet been validated (the “Therapy cycle” is explained in paragraph 1.3.4);
- generate the not-yet-generated orders within 7 days after validation;
- delete the orders that must be deleted.

To update the treatment plan

- click the **Update** button on the command bar (Fig 85).

LARGE FONT	SHOW NOTES	ALL PRESCRIPTIONS	TIME PLAN	INFO	DETAILS		NOTES	
NEW	EDIT	REMOVE	SUSPEND	RESUME	REMOVE COMPLETED		SIGN	UPDATE

Fig 85 - Command bar

The following window opens (Fig 86).

Prescription	Day	Hours	Status	Delete	Validated
Acidovir (bolo) 5 mg	19/01/2018	13:00	Future	<input type="checkbox"/>	ADM
	19/01/2018	10:00	Late	<input type="checkbox"/>	ADM
		00:00	Future	<input type="checkbox"/>	ADM
Acidovir 3 mg in 150 mL of Soluzione Fisiologica, 0,0341 mg/Kg/h, 150 mL/h, for 1 hour	20/01/2018	08:00	Future	<input type="checkbox"/>	ADM
		10:00	Future	<input type="checkbox"/>	ADM
Albumina 20% 24 mL, 1 mL/h, for 24 hours	19/01/2018	12:00	Ready	<input type="checkbox"/>	ADM
Amoxicillina 10 mg in 100 mL, 0,114 mg/Kg/h, 100 mL/h, for 1 hour	18/01/2018	15:00	Late	<input type="checkbox"/>	ADM
Clonidina 5 mcg in 100 mL of Soluzione Fisiologica, 0,0024 mcg/Kg/h, 4,17 mL/h, for 24 hours	19/01/2018		Condition		ADM
Esempio prescrizione condizionale					
Miscela Sali 100 mL of Soluzione Fisiologica, 4,17 mL/h, for 24 hours	18/01/2018	13:00	Late	<input type="checkbox"/>	ADM
	18/01/2018	11:00	Late	<input type="checkbox"/>	ADM
Normosol M 24 mL of Soluzione Fisiologica, 1 mL/h, for 24 hours	19/01/2018	11:00	Late	<input type="checkbox"/>	ADM
	20/01/2018	11:00	Future	<input type="checkbox"/>	ADM
Paracetamolo (bolo) 1000 mg Only if patient...	19/01/2018		Condition		ADM
Potassio Cloruro 2 mEq in 100 of Soluzione Fisiologica, 0,0227 mEq/mL/die, 4,17 mL/h, for 24 hours	19/01/2018	12:00	Ready	<input type="checkbox"/>	ADM

Sort by: ☒ Prescription ☐ Date

SELECT EXPIRED

CANCEL

CONFIRM

Fig 86 - Orders confirmation

The “Orders confirmation” window displays in a table all the orders that are within the “Therapy cycle” and the past orders that have not been administered yet. This window is described in paragraph 5.1.1.

- Click the **Close and confirm** button.

The window closes. A print report is created, containing the list of the orders to be administered. The printed list contains all the not-yet-administered orders that are within the Therapy Cycle. The print preview is displayed.

The treatment plan is this way updated. The time counter is reset to zero on the treatment plan validity indicators.

5.1.1. Orders confirmation window description

The “Orders confirmation” window (Fig 87) is displayed when the **Update** button on the command bar is clicked.

The window displays in a table all the orders that are within the “Therapy cycle” and the past orders that have not been administered yet.

Prescription	Day	Hours	Status	Delete	Validated
Aciclovir (bolo) 5 mg	19/01/2018	13:00	Future	<input type="checkbox"/>	ADM
	19/01/2018	10:00	Late	<input type="checkbox"/>	ADM
Aciclovir 3 mg in 150 mL of Soluzione Fisiologica, 0,0341 mg/Kg/h, 150 mL/h, for 1 hour	20/01/2018	00:00	Future	<input type="checkbox"/>	ADM
		08:00	Future	<input type="checkbox"/>	ADM
		10:00	Future	<input type="checkbox"/>	ADM
Albumina 20% 24 mL, 1 mL/h, for 24 hours	19/01/2018	12:00	Ready	<input type="checkbox"/>	ADM
Amoxicillina 10 mg in 100 mL, 0,114 mg/Kg/h, 100 mL/h, for 1 hour	18/01/2018	15:00	Late	<input type="checkbox"/>	ADM
Clonidina 5 mcg in 100 mL of Soluzione Fisiologica, 0,0024 mcg/Kg/h, 4,17 mL/h, for 24 hours	19/01/2018		Condition		ADM
Esempio prescrizione condizionale					
Miscela Sali 100 mL of Soluzione Fisiologica, 4,17 mL/h, for 24 hours	18/01/2018	13:00	Late	<input type="checkbox"/>	ADM
	18/01/2018	11:00	Late	<input type="checkbox"/>	ADM
Normosol M 24 mL of Soluzione Fisiologica, 1 mL/h, for 24 hours	19/01/2018	11:00	Late	<input type="checkbox"/>	ADM
	20/01/2018	11:00	Future	<input type="checkbox"/>	ADM
Paracetamolo (bolo) 1000 mg Only if patient...	19/01/2018		Condition		ADM
Potassio Cloruro 2 mEq in 100 of Soluzione Fisiologica, 0,0227 mEq/mL/die, 4,17 mL/h, for 24 hours	19/01/2018	12:00	Ready	<input type="checkbox"/>	ADM

Sort by: ☒ Prescription ☐ Date
 SELECT EXPIRED
CANCEL CONFIRM

Fig 87 - Orders confirmation

Each row on the table corresponds to an order. For each order the following information is provided:

- prescribed treatment data (Fig 88 A);
- prescribed administration date (Fig 88 B);
- prescribed administration time (Fig 88 C);
- order status (Fig 88 D);
- order deletion checkbox (Fig 88 E);
- validation indication (Fig 88 F).

Prescription	Day	Hours	Status	Delete	Validated
Aciclovir (bolo) 5 mg	19/01/2018	13:00	Future	<input type="checkbox"/>	ADM
	19/01/2018	10:00	Late	<input type="checkbox"/>	ADM
Aciclovir 3 mg in 150 mL of Soluzione Fisiologica, 0,0341 mg/Kg/h, 150 mL/h, for 1 hour	20/01/2018	00:00	Future	<input type="checkbox"/>	ADM
		08:00	Future	<input type="checkbox"/>	ADM
		10:00	Future	<input type="checkbox"/>	ADM
Albumina 20% 24 mL, 1 mL/h, for 24 hours	19/01/2018	12:00	Ready	<input type="checkbox"/>	ADM
Amoxicillina 10 mg in 100 mL, 0,114 mg/Kg/h, 100 mL/h, for 1 hour	18/01/2018	15:00	Late	<input type="checkbox"/>	ADM
Clonidina 5 mcg in 100 mL of Soluzione Fisiologica, 0,0024 mcg/Kg/h, 4,17 mL/h, for 24 hours	19/01/2018		Condition		ADM
Esempio prescrizione condizionale					
Miscela Sali 100 mL of Soluzione Fisiologica, 4,17 mL/h, for 24 hours	18/01/2018	13:00	Late	<input type="checkbox"/>	ADM
	18/01/2018	11:00	Late	<input type="checkbox"/>	ADM
Normosol M 24 mL of Soluzione Fisiologica, 1 mL/h, for 24 hours	19/01/2018	11:00	Late	<input type="checkbox"/>	ADM
	20/01/2018	11:00	Future	<input type="checkbox"/>	ADM
Paracetamolo (bolo) 1000 mg Only if patient...	19/01/2018		Condition		ADM
Potassio Cloruro 2 mEq in 100 of Soluzione Fisiologica, 0,0227 mEq/mL/die, 4,17 mL/h, for 24 hours	19/01/2018	12:00	Ready	<input type="checkbox"/>	ADM

Fig 88

Treatment name (Fig 88 B)

The name indicated in this area can refer to several adjacent rows on the table. Each row corresponds to a single administration order.

Date (Fig 88 C)

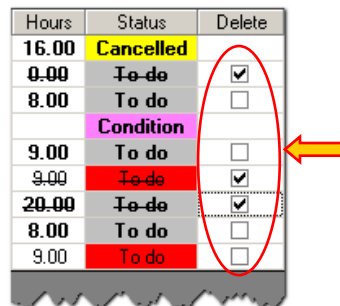
The planned administration date of the corresponding order is specified on each row.

Times (Fig 88 D)

The planned administration time of the corresponding order is specified on each row.

Checkbox (Fig 88 E)

On the second last column there is a deletion checkbox. If the box is selected (Fig 89) it means that the corresponding order will be deleted.



Hours	Status	Delete
16.00	Cancelled	
9.00	To do	<input checked="" type="checkbox"/>
8.00	To do	<input type="checkbox"/>
	Condition	
9.00	To do	<input type="checkbox"/>
9.00	To do	<input checked="" type="checkbox"/>
20.00	To do	<input checked="" type="checkbox"/>
8.00	To do	<input type="checkbox"/>
9.00	To do	<input type="checkbox"/>

Fig 89 - Deletion checkboxes

The order selected for deletion is written in strike-through characters on the “Hours” and “Status” columns.

Status (Fig 88 F)

The order status is specified on each row. The status of an order can be:

- To do
- Done
- Cancelled
- Condition

The “status” cell is highlighted in specific colours. The colour provides additional information on the order.

- Grey - future orders
- Green - ready for the administration
- Red - the administration is late (alarm)
- Blue - durative administration is in progress
- Purple - conditional order
- Yellow - deleted

Further information is provided by the characters used:

- strike-through characters mean that the corresponding order is selected for deletion;
- bold character means that the order is within the “Therapy cycle”;
- plain character means that the order is outside the “Therapy cycle” in the past.

Validation indications (Fig 88 F)

The last column on the right (“Validated” column) displays information relating to the order validation.

When the cell contains the user acronym it means that the order has been validated. If the user acronym is in bold characters it means that the currently logged user is validating the order with the current validation procedure. If the user acronym is not in bold characters it means that the order was validated in the past by the user whose acronym is specified in the cell.

If the cell does not display the user acronym it means that the order is not valid anymore (validation expired) and it cannot be validated again.

Orders list display mode

The orders can be listed either by date or by prescription.

To change the display mode

- click the wanted option on the bottom-left corner of the window (Fig 90).

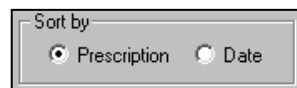


Fig 90

The “Prescription” option groups the orders of the same prescription all together. The various prescriptions are displayed in alphabetical order.

The “Date” option groups together, in chronological order, all the orders that must be executed on the same day.

Quick selection of the alarmed non-valid orders

The **Check all invalid alarms** button on the window selects for deletion all the orders that are not valid and are alarmed (i.e. they should have been administered in the past). It is this way possible to quickly delete these orders. The orders are deleted, after “delete” checkbox selection, when the **Close and Confirm** button is clicked.

5.2. Editing the values of an existing prescription

To edit the values of an existing prescription

- click, on the prescriptions table, the name of the prescription whose values must be edited.

The corresponding row is highlighted (Fig 91 A).

Filter	Name	Details	Weight	Status	Days	Repeat
Liquidi ev. Diuretici	Albumina 20%	ev, 24 mL, 1 mL/h, for 24 hours, at h12	88	Active	1	Yes
	Miscela Sali	ev, 100 mL of Soluzione Fisiologica, 4,17 mL/h, for 24 hours, 18/01/2018 h13	88	Active	1	
	Normosol M	ev, 24 mL of Soluzione Fisiologica, 1 mL/h, for 24 hours, at h11	88	Active	1	Yes
Antibiotici, Antivirali, Antifungini	Aciclovir	ev, 3 mg in 150 mL of Soluzione Fisiologica, 0,0341 mg/Kg/h, 150 mL/h, for 1 hour, x 3, at h8, 8, 10	88	Active	0	Yes
	Aciclovir (bolo)	ev, 5 mg, at h13	88	Active	1	Yes
Anticoag. Antiaggreganti	Amoxicillina	ev, 10 mg in 100 mL, 0,114 mg/Kg/h, 100 mL/h, for 1 hour, 18/01/2018 h15	88	Active	1	
Immunosoppressori, Cortisonici	Clonidina	ev, 5 mcg in 100 mL of Soluzione Fisiologica, 0,0024 mcg/Kg/h, 4,17 mL/h, for 24 hours, Esempio prescrizione condizionale	88	Active	1	
Vasodilatatori polm.	Paracetamolo (bolo)	ev, 1000 mg, Only if patient...	88	Active	0	
Antiscampo. Antiaritmici	Potassio Cloruro	ev, 2 mEq in 100 of Soluzione Fisiologica, 0,0227 mEq/mL/die, 4,17 mL/h, for 24 hours, 19/01/2018 h12	88	Active	0	
Sedativi, Neurotropi						
Altro						
ALL						

LAST UPDATE: 19/01 - 12:08		Peso attuale paziente: 88 Kg	
RESIDUAL TIME: 24 hours		Previsione bilancio nelle prossime 24h: 451,37 mL	

LARGE FONT	SH	ALL PRESCRIPTIONS	TIME PLAN	INFO	DETAILS	NOTES	PRINT
NEW	EDIT	REMOVE	SUSPEND	RESUME	REMOVE COMPLETED	SIGN	UPDATE

Fig 91 - Edit prescription

- Click the **Edit** button on the command bar (Fig 91 B).

The “Treatment specification” window, described in paragraph 4, opens. The window refers to the selected prescription.



The window also appears double-clicking the prescription row.

ACTION EDITING

Aciclovir (bolo)
Cycloviran

QUANTITY/DOSE

Amount: 5 mg
Amount (/Kg): 0,0568 mg/Kg
Way: ev

Patient weight: 88 kg.

DAILY

Starting from: 18/01/2018 13:00 Tolerance: 00:30

Schedule: 1

06	07	08	09	10	11	12	13
14	15	16	17	18	19	20	21
+06	+07	+08	+09	+10	+11	+12	+13

One day only
Repeat every day

NOTES

Notes: Somministrare in 60 minuti.

History

Date/Time	Auth	Status	Details
Yesterday 12:50	ADM	Done	ev, 5 mg
Today 13:00	ADM	Future	ev, 5 mg
Tomorrow 13:00	ADM	Validate	ev, 5 mg
21/01/2018 13:00	ADM	Validate	ev, 5 mg
22/01/2018 13:00	ADM	Validate	ev, 5 mg
23/01/2018 13:00	ADM	Validate	ev, 5 mg
24/01/2018 13:00	ADM	Validate	ev, 5 mg
25/01/2018 13:00	ADM	Validate	ev, 5 mg

Default
Prescribe
Cancel

Fig 92 - Action editing

- Edit the prescription values.
- Click the **Prescribe** button (Fig 92 A).

A specific pop-up message asks the user to double-check that the possible active orders in “ready” status (green colour on the “Execution” module) have not been already administered.

WARNING!

The prescription editing implies the deletion of all the orders possibly generated before the editing and the generation of a set of new orders according the new values.

Double check that the “former” orders have not been already administered.

5.3. Remove prescription

To remove a prescription from the patient treatment plan

- click, on the prescription table, the row corresponding to the prescription that must be removed.

The row is highlighted (Fig 93 A).

Filter	Name	Details	Weight	Status	Days	Repeat
Liquidi ev, Diuretici	Albumina 20%	ev, 24 mL, 1 mL/h, for 24 hours, at h12	88	Active	1	Yes
	Miscela Sali	ev, 100 mL of Soluzione Fisiologica, 4,17 mL/h, for 24 hours, 18/01/2018 h13	88	Active	1	
	Normosol M	ev, 24 mL of Soluzione Fisiologica, 1 mL/h, for 24 hours, at h11	88	Active	1	Yes
Antibiotici, Antivirali, Antifungini	Acidovir	ev, 3 mg in 150 mL of Soluzione Fisiologica, 0,0341 mg/Kg/h, 150 mL/h, for 1 hour, x 3, at h0, 8, 10	88	Active	0	Yes
	Acidovir (bolo)	ev, 5 mg, at h13	88	Active	1	Yes
Anticoagulanti, Antiaggreganti	Amoxicillina	ev, 10 mg in 100 mL, 0,114 mg/Kg/h, 100 mL/h, for 1 hour, 18/01/2018 h15	88	Active	1	
	Clonidina	ev, 5 mcg in 100 mL of Soluzione Fisiologica, 0,0024 mcg/Kg/h, 4,17 mL/h, for 24 hours, Esempio prescrizione condizionale	88	Active	1	
Immunosoppressori, Cortisonici	Paracetamolo (bolo)	ev, 1000 mg, Only if patient	88	Active	0	
Vasoattivi, Vasodilatatori polm.	Potassio Cloruro	ev, 2 mEq in 100 of Soluzione Fisiologica, 0,0227 mEq/mL/die, 4,17 mL/h, for 24 hours, 19/01/2018 h12	88	Active	0	
Anticompensio, Antiaritmici						
Sedativi, Neurotropi						
Altro						
ALL						

LAST UPDATE: 19/01 - 12:08		Peso attuale paziente: 88 Kg	
RESIDUAL TIME: 24 hours		Previsione bilancio nelle prossime 24h: 451,37 mL	

LARGE FONT	SHOW NOTES	ALL PRESCRIPTIONS	TIME PLAN	INFO	DETAILS	NOTES	PRINT
NEW	EDIT	REMOVE	SUSPEND	RESUME	REMOVE COMPLETED	SIGN	UPDATE

Fig 93 - Remove Prescription

- Click the **Remove** button on the command bar (Fig 93 B).

User confirmation is required.

- Click **Yes** to confirm. The selected row disappears from the prescriptions table.

A specific pop up message asks the user to double-check that the possible active orders in “ready” status (green colour on the “Execution” module) have not been already administered.

WARNING!

The removal of a prescription causes the removal of all the orders generated by the prescription itself.

Double check that these orders have not been already administered.

The removed prescriptions turn to “Terminated” status. They are still visibile in “All prescriptions” mode (see paragraph 5.7). When the prescription table is displayed in “All prescriptions” mode the removed prescriptions are labelled by a red flag appearing in the “Status” cell.

A removed prescription cannot be resumed.

The deletion of a prescription corresponding to a durative action which is currently running does not automatically stop the corresponding action. It instead generates a new order whose corresponding action must be manually performed on the “Execution” module.

For example: if a prescription corresponding to an infusion currently running is stopped, the corresponding box on the “Execution” module turns back to green colour.

This happens to let the nursing staff know that there is a new order to be executed (the action “Removal”, in this case). See chapter 6 for a description of the procedures related to the “Therapy Execution” module.

5.4. Suspend prescription

To suspend a prescription

- click, on the prescriptions table, the row corresponding to the prescription to be suspended.

The clicked row is highlighted (Fig 94 A).

Filter	Name	Details	Weight	Status	Days	Repeat
Liquidi ev, Diuretici	Albumina 20%	ev, 24 mL, 1 mL/h, for 24 hours, at h12	88	Active	1	Yes
	Miscela Sali	ev, 100 mL of Soluzione Fisiologica, 4,17 mL/h, for 24 hours, 18/01/2018 h13	88	Active	1	
	Normosol M	ev, 24 mL of Soluzione Fisiologica, 1 mL/h, for 24 hours, at h11	88	Active	1	Yes
Antibiotici, Antivirali, Antifungini	Aciclovir	ev, 3 mg in 150 mL of Soluzione Fisiologica, 0,0341 mg/Kg/h, 150 mL/h, for 1 hour, x 3, at h0, 8, 10	88	Active	0	Yes
	Aciclovir (bolo)	ev, 5 mg, at h13	88	Active	1	Yes
Anticoagulanti, Antitrombotici	Amoxicillina	ev, 10 mg in 100 mL, 0,114 mg/Kg/h, 100 mL/h, for 1 hour, 18/01/2018 h15	88	Active	1	
	Clonidina	ev, 5 mcg in 100 mL of Soluzione Fisiologica, 0,0024 mcg/Kg/h, 4,17 mL/h, for 24 hours, Esemptio prescrizione -condizionale	88	Active	1	
Immunosoppressori, Cortisonici	Paracetamolo (bolo)	ev, 1000 mg. Only if patient...	88	Active	0	
Vasoattivi, Vasodilatatori polm.	Potassio Cloruro	ev, 2 mEq in 100 of Soluzione Fisiologica, 0,0227 mEq/mL/die, 4,17 mL/h, for 24 hours, 19/01/2018 h12	88	Active	0	
Anticompensio, Antiaritmici						
Sedativi, Neurotropi						
Altro						
ALL						

LAST UPDATE: 19/01 - 12:08		Peso attuale paziente: 88 Kg	
RESIDUAL TIME: 24 hours		Previsione bilancio nelle prossime 24h: 451,37 mL	

LARGE FONT	SHOW NOTES	ALL PRESCRIPTIONS	SUSPEND	INFO	DETAILS	NOTES	PRINT
NEW	EDIT	REMOVE	SUSPEND	RESUME	REMOVE COMPLETED	SIGN	UPDATE

Fig 94 - Suspend prescription

- Click the **Suspend** button on the command bar (Fig 94 B).

User confirmation is required

- Click **Yes** to confirm. The selected row disappears from the prescriptions table.

A specific pop up message asks the user to double-check that the possible active orders in “ready” status (green colour on the “Execution” module) have not been already administered.

WARNING!

The suspension of a prescription causes the removal of all the orders generated by the prescription itself.

Double check that these orders have not been already administered.

The suspended prescriptions turn to “Suspended” status are still visibile in “All prescriptions” mode (see paragraph 5.7). When the prescription table is displayed in “All prescriptions” mode the suspended prescriptions are labelled by a yellow flag displayed in the “Status” cell.



The suspension of a prescription corresponding to a durative action which is currently running does not automatically stop the corresponding action. It instead generates a new order whose corresponding action must be manually performed on the “Execution” module.

For example: if a prescription corresponding to an infusion currently running is suspended, the corresponding box on the “Execution” module turns back to green colour. This happens to let the nursing staff know that there is a new order to be executed (the action “Removal”, in this case). See chapter 6 for a description of the procedures related to the “Therapy Execution” module.

5.4.1. How to resume a suspended prescription

The suspended prescriptions are visibile when the prescription table is displayed in “All prescriptions” mode (see paragraph 5.7). To display the prescriptions table in “All prescriptions” mode

- click the **All Prescriptions** button on the command bar (Fig 95 A). The button is this way selected.

The prescriptions table displays all the prescriptions: the active, the suspended and the removed ones.

Filter	Name	Details	Weight	Status	Days	Repeat
Liquidi ev. Diuretici	Albumina 20%	ev, 24 mL, 1 mL/h, for 24 hours, at h12	88	Active	1	Yes
	Miscela Sali	ev, 100 mL of Soluzione Fisiologica, 4,17 mL/h, for 24 hours, 18/01/2018 h13	88	Active	1	
Antibiotici, Antivirali, Antifungini	Normosol M	ev, 24 mL of Soluzione Fisiologica, 1 mL/h, for 24 hours, at h11	88	Active	1	Yes
	Aciclovir	ev, 3 mg in 150 mL of Soluzione Fisiologica, 0,0341 mg/Kg/h, 150 mL/h, for 1 hour, x 3, at h0, 8, 10	88	Active	0	Yes
Anticoagulanti, Antiaggreganti	Aciclovir (bolo)	ev, 5 mg, at h13	88	Suspended	19/01	Yes
	Amoxicillina	ev, 10 mg in 100 mL, 0,114 mg/Kg/h, 100 mL/h, for 1 hour, 18/01/2018 h15	88	Active	1	
Immunosoppressori, Cortisonici	Clonidina	ev, 5 mcg in 100 mL of Soluzione Fisiologica, 0,0024 mcg/Kg/h, 4,17 mL/h, for 24 hours, Esempio prescrizione condizionale	88	Active	1	
Vasodilatatori polim.	Paracetamolo (bolo)	ev, ____ mg, at h13	88	Terminated	19/01	Yes
	Paracetamolo (bolo)	ev, 1000 mg, Only if patient	88	Active	0	
Antiscenposo, Antiepilettici	Potassio Cloruro	ev, 2 mEq in 100 of Soluzione Fisiologica, 0,0227 mEq/mL/die, 4,17 mL/h, for 24 hours, 19/01/2018 h12	88	Active	0	
Sedativi, Neurotropi						
Altro						
ALL						

LAST UPDATE: 19/01 - 12:08 RESIDUAL TIME: 24 hours		Peso attuale paziente: 88 Kg Previsione bilancio nelle prossime 24h: 451,9 mL	
LARGE FONT	SHOW NOTES	ALL PRESCRIPTIONS	TIME PLAN
NEW	EDIT	REMOVE	SUSPEND
			RESUME
			REMOVE COMPLETED
			SIGN
			UPDATE

Fig 95 - Prescription table in “All prescriptions” mode

- Click the row corresponding to the suspended prescription that must be resumed.

The clicked row is highlighted (Fig 95 B).



Only the prescriptions in “Suspended” status can be resumed.

The **Resume** button is active on the command bar (Fig 95 C).

- Click the **Resume** button. A user confirmation is required.
- Click **Yes** to confirm.

The selected prescription becomes active again. The yellow label disappears; the prescription is again part of the patient treatment plan.

5.5. Large font display



Fig 96 - Command bar

The **Large Font** button (Fig 96 A) makes it possible to display the information on screen in larger fonts that are easier to read.

5.6. Show notes

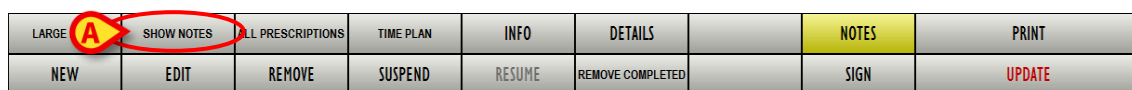


Fig 97 - Command Bar

The **Show Notes** button (Fig 97 A) displays in the prescriptions table all the notes associated to the various prescriptions.



*The notes displayed by the **Show Notes** button are inserted on the “Prescription specification” window (see paragraph 4.3 for the procedure).*

5.7. Display all prescriptions



Fig 98 - Command Bar

The **All Prescriptions** button (Fig 98 A) makes it possible to display, on the prescriptions table:

- the active prescriptions,
- the suspended prescriptions,
- the terminated prescriptions.

5.8. Remove completed prescriptions

A prescription is completed when all the orders that it generated have been executed and no other order will be generated by it in the future. These prescriptions are still in “Active” status. The rows corresponding to these prescriptions are still visible on the prescription table. Completed prescriptions are displayed in strikethrough characters (Fig 99).

Paracetamol	ev, 1000 mg, x 3, 19/05/2010 h10, 18, 20/05/2010 h2	Active	0
-------------	---	--------	---

Fig 99 - Completed prescription

These rows can be removed from the table using the **Remove Completed** button on the command bar (Fig 100 A).



Fig 100 - Command bar

A user confirmation is required.

- Click **Yes** to remove from the prescriptions table the rows corresponding to the completed prescriptions.

The removed prescriptions turn to “Terminated” status. They can be displayed again when the prescriptions table is in “All prescriptions” mode (see paragraph 5.7).

The “Terminated” prescription cannot be resumed.

5.9. Show the prescription details

The **Details** button (Fig 101) opens a window containing all the details of a single prescription. This window displays all the available information on the prescriptions of a treatment and the orders generated by it.



LARGE FONT	SHOW NOTES	ALL PRESCRIPTIONS	TIME PLAN	INFO	DETAILS		NOTES	PRINT
NEW	EDIT	REMOVE	SUSPEND	RESUME	REMOVE COMPLETED		SIGN	UPDATE

Fig 101




To display the prescription details window,

- click, on the prescriptions table, the row corresponding to the relevant prescription.

The row is highlighted.

- Click the **Details** buttons.

The window shown in Fig 102 opens.

PRESCRIPTION DETAILS						
Albumina 20%						Active
! Details	Prescription	Status	Auth	Execution	Repe at	
ev, 24 mL, 1 mL/h, for 24 hours, at h12	Yesterday 11:01	Create	ADM		Yes	
ev, 1 mL/h, for 24 hours	Yesterday 12:00	Started	ADM	Yesterday 11:01		
ev, 1 mL/h, for 24 hours	Today 12:00	Alarm				
ev, 1 mL/h, for 24 hours	Tomorrow 12:00	Validate				
ev, 1 mL/h, for 24 hours	21/01/2018 12:00	Validate				
ev, 1 mL/h, for 24 hours	22/01/2018 12:00	Validate				
ev, 1 mL/h, for 24 hours	23/01/2018 12:00	Validate				
ev, 1 mL/h, for 24 hours	24/01/2018 12:00	Validate				

! Indicates added, removed or modified actions/administrations.

Close

Fig 102 - Prescription details

The name of the treatment is indicated on the top-left corner of the window (Fig 102 A).


The prescription status is indicated on the top-right corner of the window (Fig 102 B).

All the meaningful events and all the actions performed that are related to the prescription are listed in a table (Fig 102 C).

The blue rows refer to the prescription. The white rows refer to the orders.

The information provided on the table is:

- the prescription/administration details;
- date and time in which the event/action displayed was recorded;
- prescription/order status;
- acronym of the user who performed the specific action;
- date and time of administration (if the line corresponds to an administration). When date and time are red it means that they are quite different from those prescribed;
- prescription repeatability.

The  symbol appears at the beginning of a row to indicate that the corresponding action was performed without an explicit prescription.



The “Status” cell indicates an action performed by the user or an event occurred. The information in this cell refers to an order if it is on a white row; it refers to a prescription if it is on a blue row.

The possible indications displayed on the “Status” cell are:

if referred to a prescription (blue lines)

- **Create** - indicates the prescription creation;
- **Change** - indicates any change to the prescription values;
- **Suspend** - indicates the prescription suspension;
- **Resume** - indicates the retrieval of the suspended prescription;
- **Terminate** - indicates the prescription removal.

If referred to an order (white lines)

- **Done** - indicates the execution of an order;
- **Alarm** - indicates an alarm on one of the orders (administration is late);
- **Future** - indicates that the order must be executed in the future;
- **Validate** - indicates that the order must be validated;
- **Cancelled** - indicates the deletion of the order;
- **Start** - indicates when a durative administration was started;
- **Stop** - indicates when a durative administration was stopped.

5.10. Prescriptions time plan

The **Time Plan** button (Fig 103 A) opens a window containing a summary of all the active prescriptions and the statuses of the corresponding orders.

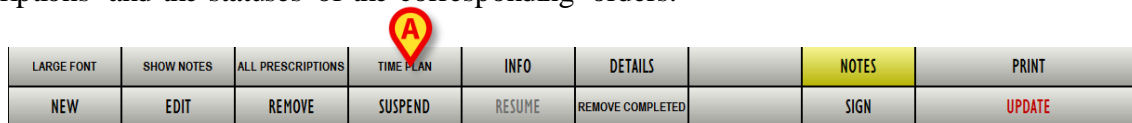


Fig 103 - Command bar

To display the time plan

- click the **Time Plan** button on the command bar.

The following window opens.

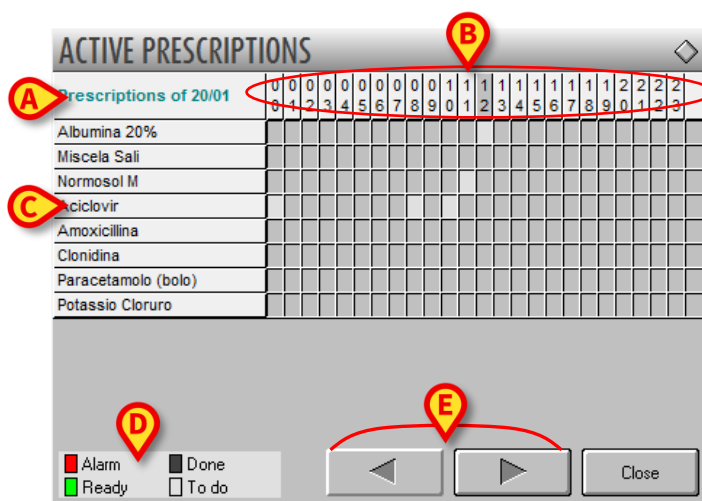


Fig 104 - Scheda oraria

The current day is indicated on the top left corner of the window (Fig 104 A).

The line highlighted in Fig 104 B indicates the time. The current time is highlighted yellow (it is 09.00 o'clock in the figure).


All the active prescription are listed on the left (Fig 104 C). For each prescription there are 24 cells available, one for each full hour. If a cell is highlighted it means that there is an administration scheduled at the corresponding time.

The cell colour provides information on the order status.



☐ - To do - it means that the administration must be performed in the future.

☒ - Done - it means that the order was executed.

☒ - Ready - it means that the order should be executed now, i.e. we are within the time span configured as “range of tolerance” - see paragraph 4.2.3.3 for more details).

 - Alarm - it means that the treatment administration is late.

On the bottom-left corner of the window there are indications on how to read the information provided by the window itself (Fig 104 D).

Use the arrow-buttons indicated in Fig 104 E to display the days either preceding -  - or following -  - the current day.

5.11. Add\Display notes

Use the **Notes** button on the command bar (Fig 105 A) to add a note that will be displayed on the “Therapy Execution” module main screen.

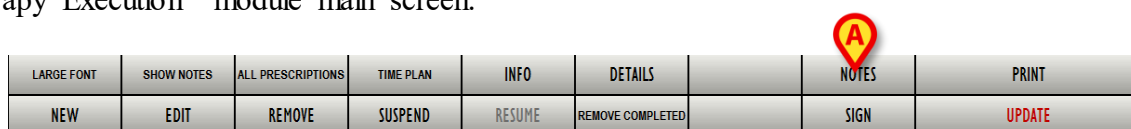


Fig 105 - Command bar



The notes inserted using the procedure described here are general notes referring either to the patient or to the whole therapy. They are not referred to the single treatment prescription. They are not to be confused with the notes specified using the procedure described in paragraph 4.3.1, referring to the treatment prescription.

To add a note

- click the **Notes** button.

The following window opens.



Fig 106 - “Notes” window

- Click the **Edit** button (Fig 106 A).

The window changes in the following way

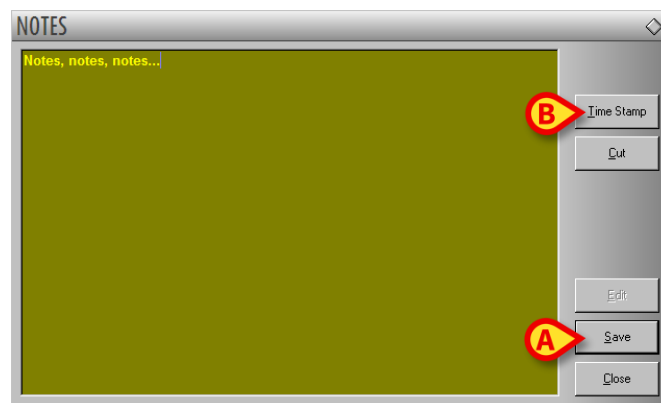


Fig 107 - "Notes" window (edit mode)

- Type the note. The text is displayed inside the window.
- Click the **Save** button to save the note (Fig 107 A).

The window closes automatically; the presence of a note is indicated by the color of the button on the command bar (yellow). Click the button again to display the notes-window again.

The note is displayed on the "Electronic Prescription" screen, in a specific box (Fig 108 A).

Filter

Liquidi ev, Diuretici
Antibiotici, Antivirali, Antifungini
Anticoagulanti, Antiaggreganti
Immunosoppressori, Cortisonici
Vasodilatatori polm.
Vasodilatatori polm.
Antiscopolomo, Antieritici
Sedativi, Neurotropi
Altro
ALL

Name	Details	Weight	Status	Days	Repeat
Albumina 5%	ev, 24 mL, 1 mL/h, for 24 hours, 3 orders	74	Active	0	
Furosemide	ev, 5 mg in 100 mL of Soluzione Fisiologica, 0,0027 mg/Kg/h, 4,17 mL/h, for 24 hours, x 2, at h12, 15	76	Active	1	Yes
Sodio Cloruro 0,9%	ev, 24 mL, 1 mL/h, for 24 hours, x 2, at h13, 17	74	Active	1	Yes
Aciclovir	ev, 5 mg in 100 mL of Soluzione Fisiologica, 0,0658 mg/Kg/h, 100 mL/h, for 1 hour, x 3, at h0, 8, 16	76	Active	1	Yes
Amoxicillina	ev, 2 mg in 500 mL of Soluzione Fisiologica, 0,027 mg/Kg/h, 500 mL/h, for 1 hour, x 3, at h0, 8, 16	74	Active	1	Yes
Cefazolina	ev, 1 mg in 500 mL of Soluzione Fisiologica, 0,0132 mg/Kg/h, 500 mL/h, for 1 hour, x 4, at h0, 6, 12, 18	76	Active	1	Yes
Midazolam	ev, 1 mg in 100 mL of Soluzione Fisiologica, 0,0005 mg/Kg/h, 4,17 mL/h, for 24 hours, 17/01/2018 h18	76	Active	1	
Paracetamolo (bolo)	ev, 1000 mg, Soltanto se paziente...	74	Active	0	
Paracetamolo (bolo)	ev, 1000 mg, 17/01/2018 h13	76	Active	1	
Potassio Cloruro	ev, 5 mEq in 12 of Soluzione Fisiologica, 0,0676 mEq/mL/die, 0,5 mL/h, for 24 hours, 18/01/2018 h12	74	Active	0	

LAST UPDATE: 17/01 - 12:20
RESIDUAL TIME: EXPIRED

Peso attuale paziente: 74 Kg
Previsione bilancio nelle prossime 24h: 3916,34 mL

User note - Example (18/01/2018 12:57 ADM)

LARGE FONT	SHOW NOTES	ALL PRESCRIPTIONS	TIME PLAN	INFO	DETAILS	NOTES	PRINT
NEW	EDIT	REMOVE	SUSPEND	RESUME	REMOVE COMPLETED	SIGN	UPDATE

Fig 108 - Nota inserita

Use the **Time Stamp** button (Fig 107 B) to display the date, time and the acronym of the user who is adding the note (Fig 109).



Fig 109 - Date and time

Use the **Cut** button (Fig 110 A) to cut a selected text portion.

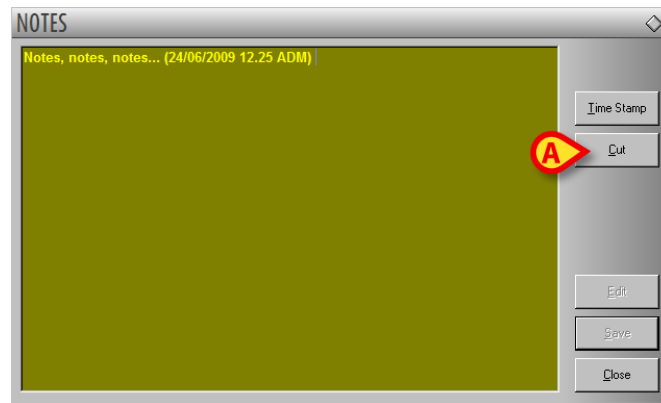


Fig 110

To cut a text portion

- click the **Edit** button (Fig 106 A).
- Select the text to be cut using either the mouse device or the workstation keyboard.
- Click the **Cut** button.

The selected text disappears from the “Notes” window.



*The notes specified using the **Notes** button can be displayed by other DIGISTAT® modules as well, if the **Notes** button is present on the command bar.*

5.12. Print reports

The **Print** button on the command bar (Fig 111 A) creates a print report of the patient treatment plan.

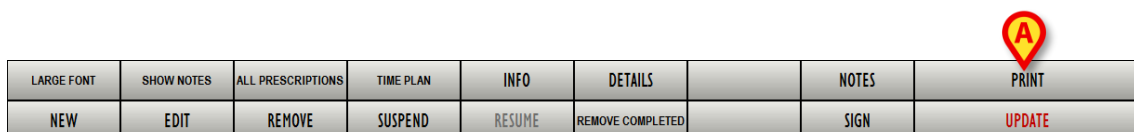


Fig 111 - Command bar

- Click the **Print** button to display a print preview.

5.13. Drug Info

The **Info** button on the command bar (Fig 112 A) displays a page containing information on a selected treatment.

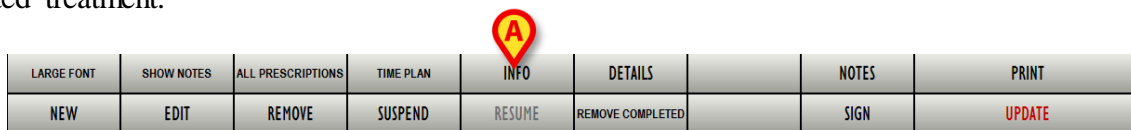


Fig 112 - Command bar

To display the treatment information, on the prescriptions table,

- click the row corresponding to the relevant treatment.

The row is highlighted.

- Click the **Info** button on the command bar.

The information page opens.



The contents of the information page are configured by the clinical supervisor. Please refer to your system administrators for information regarding the treatment info pages.

5.14. Double signature for the prescription

The **Sign** button on the command bar opens the window making it possible to double sign the prescriptions requiring double signature. See paragraph 4.4 for the double signature procedure at prescription.


6. The “Therapy Execution” module

The DIGISTAT® “Therapy Execution” module can be a help for the nursing staff in performing the tasks related to the documentation of the administration of the prescribed treatments.

The administration orders are automatically generated by the system on the base of the treatment plan specified by the physician on the DIGISTAT® “Therapy Prescription” module (chapter 2). Orders are displayed in graphic form on the “Therapy Execution” module’s main screen, on a “treatment schedule” table. The nursing staff can use this table as a help in documenting the administration of the prescribed treatments.

6.1. “Therapy Execution” module selection

To select the “Therapy Execution” module

- click the corresponding  on the lateral bar. When the module is selected the icon is highlighted.



The “Administration” module can be also selected on the “Central Station” module clicking the boxes corresponding to the different patients. See paragraph 7.2 for more details.

6.2. Main screen

The module's main screen appears as in Fig 113.

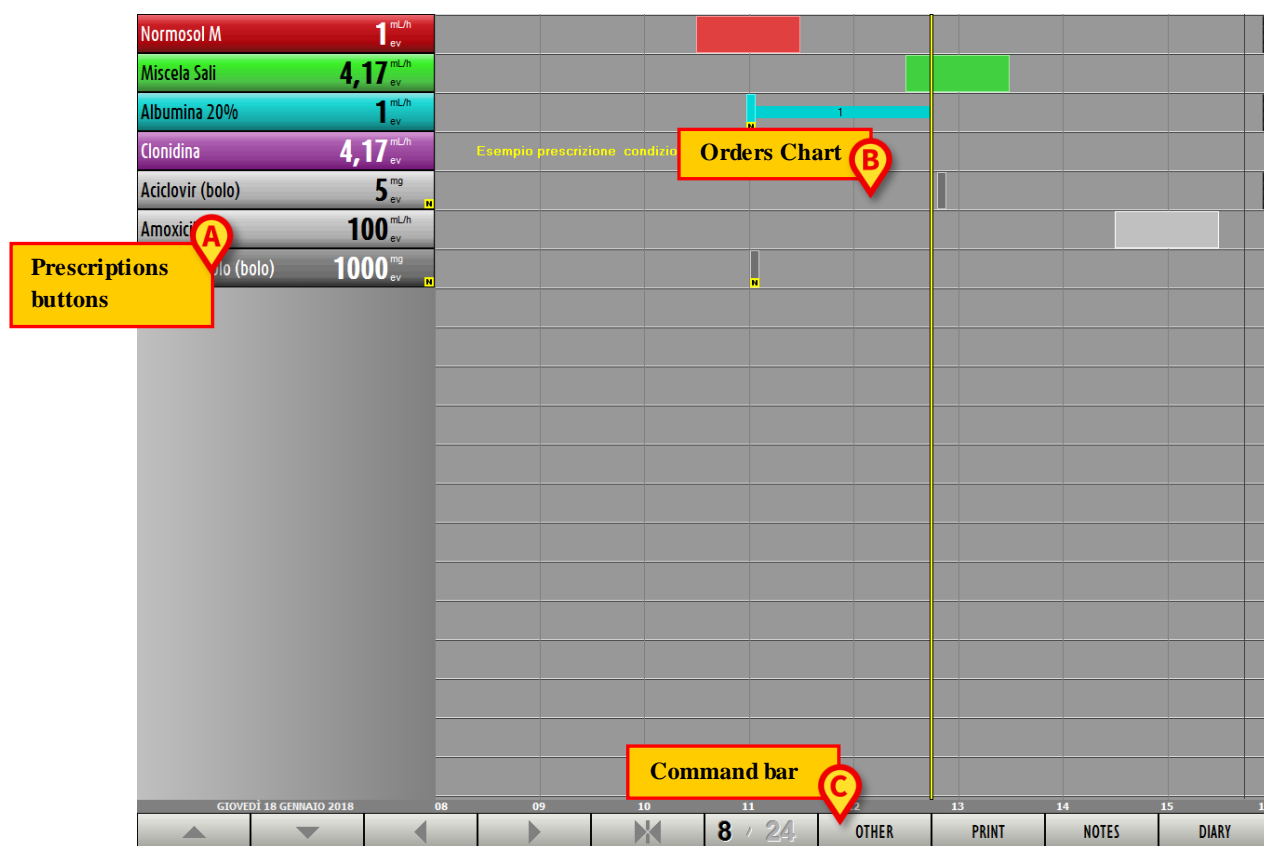


Fig 113 - Administration module (example)

There are three main areas:

- 1) the column on the left contains the buttons corresponding to the prescribed treatments (Fig 113 A);
- 2) the central area shows in a chart the orders generated by the prescriptions (Fig 113 B);
- 3) the command bar contains the function-buttons making it possible to perform different actions (Fig 113 C).

6.3. Prescribed orders representation

The treatments prescribed on the “Prescription” module are displayed on the left as colored boxes (Fig 113 A).

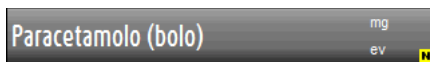
These boxes are buttons that, when clicked, make it possible to record the administration of a specific order. See paragraph 6.5 for the administration recording procedure.

The different colors provide information on the status and the kind of the corresponding treatment.

There are 6 possible colors:



Light grey characterizes active prescriptions whose orders must be administered in the future.



Dark grey characterizes completed prescriptions.



Green characterizes prescriptions having an order “ready to be administered”.



Red characterizes prescriptions having at least one “late” order.



Cyan characterizes durative prescriptions having one order in progress (see paragraph 1.3.3 for a description of durative prescriptions).



Purple characterizes conditional prescriptions; these are treatments to be administered only if specific conditions occur.



The boxes are displayed by urgency on the “Administration” screen. The “late” orders are on top, then the “ready” ones, then the “durative” orders in progress, then the “conditional” ones, then those to be executed in the future. In the end are the boxes corresponding to completed prescriptions.

I.e. the colors appear in this order:

- 1. red*
- 2. green*
- 3. cyan*
- 4. purple*
- 5. light grey*
- 6. dark grey*

6.4. The orders chart

The central area of the administration screen displays on a chart all the orders generated (the already executed ones, the future ones, the “in progress” ones - Fig 114).

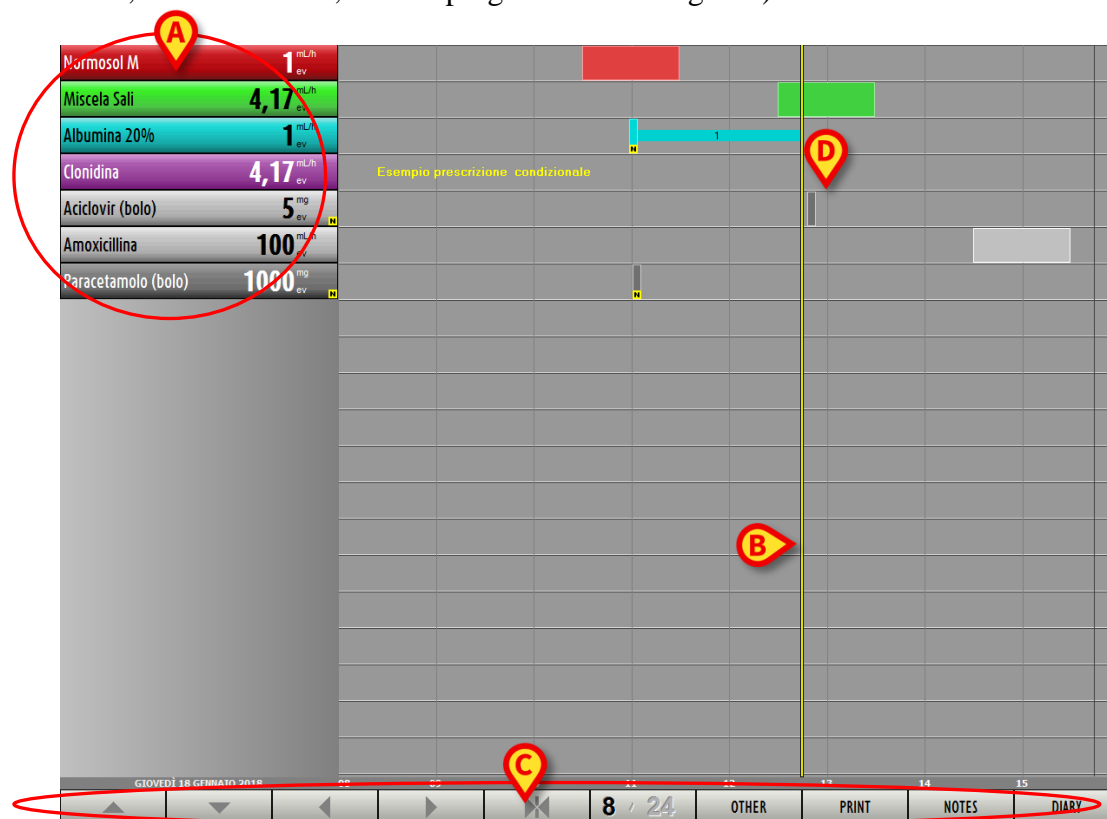


Fig 114 - Orders chart

The chart is a grid, made of rows and columns. The orders corresponding to the same treatment are on the same row (in Fig 114 there are five prescribed treatments on the left - Fig 114 A); the columns correspond to the different hours of the day.

The yellow bar shown in Fig 114 B indicates the present time. The bar scrolls forward as time goes by. In Fig 114 it is 12:45 a.m. approximately. Time can be read below, on the bar indicated in Fig 114 C. The date is displayed on the bar as well.

6.4.1. Graphic representation of the orders

The boxes indicated in Fig 114 D correspond to the different orders. The boxes are in the place corresponding to their prescribed administration time (or execution time if already executed).

6.4.1.1. Administration tolerance period

The length of the boxes is proportional to the time period that was indicated as “tolerance period for the administration” when the order was prescribed (see paragraph 4.2.3.3).

For instance: if the treatment is prescribed at 10:00 and the administration tolerance period is set to 15 minutes, the administration time indicated on the chart is a period going from 9:45 to 10:15 (it is the case highlighted in Fig 115 A).

If the treatment is prescribed at 10:00 and the administration tolerance period is set to 1 hour, the administration time indicated on the administration chart is a period going from 9:00 to 11:00 (it is the case highlighted in Fig 115 B).

The position of the boxes corresponds to the prescribed administration times. The boxes length is proportional to the tolerance period.

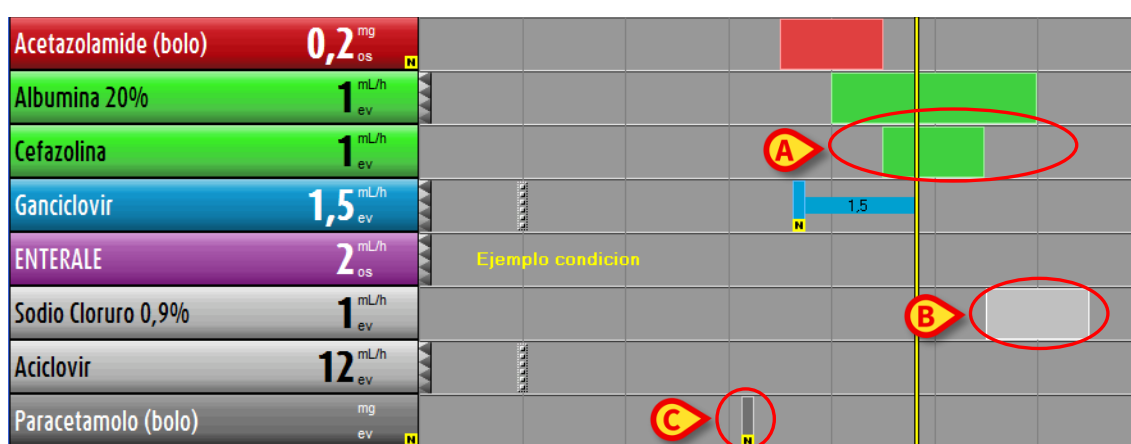


Fig 115

6.4.1.2. Order status

The box color indicates the status of the order.

Green means that the order is to be administered immediately, i.e. it means that it is within the administration tolerance period. When the box is green the vertical time bar intersects the box (Fig 115 B).

Light grey means that the order is to be executed in the future. When the box is light grey the vertical time bar is on the left of the box (Fig 115 C).

Dark grey means that the order was executed (i.e. the treatment was administered). When the box is dark grey the vertical time bar is on the right of the box (Fig 115 D).



The length of the boxes corresponding to an executed order is reduced to indicate the exact administration time. The tolerance period is not displayed anymore. When the prescription is durative (a drip, for instance) the administration duration is fully displayed in grey. See paragraph 6.5.1 for the durative orders administration procedure.

Red means that the administration of the order is late; i.e. the tolerance period is over (Fig 116 A). When the box is red the vertical time bar is on the right of the box.

Cyan characterizes durative prescriptions having one order in progress (Fig 116 B). The vertical time bar in these cases coincides with the box's right border.

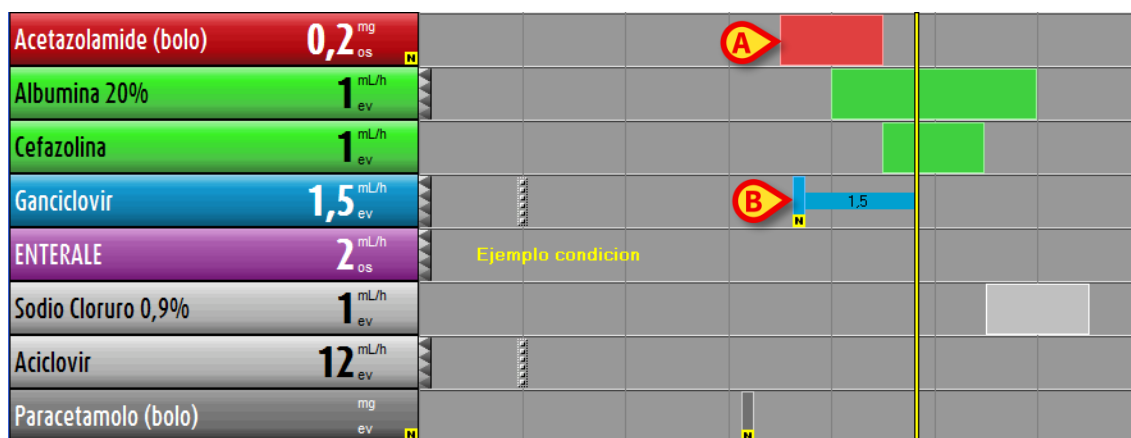


Fig 116

The duration of an administration is displayed in cyan (Fig 117).

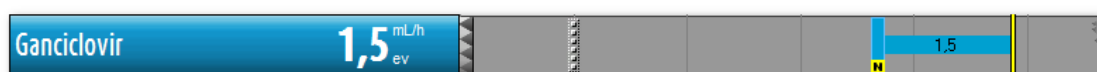




Fig 117 - Durative administration

When the administration is stopped the duration becomes grey (Fig 118).



Fig 118 - Durative administration stopped

i

Two different shades of cyan -  and  - can be used for the durative prescriptions to increase the chart readability. The choice depends on a configuration parameter.

i

On the chart, three small arrows appear at the end of a row (Fig 116 C) if there are (on the right) orders for that prescription that are not currently displayed. When the three arrows are on the left it means that the undisplayed items are on the left.



The  icon appearing on the top-left corner on a box means that the order has not been validated yet. See paragraph 1.3.6 for the explanation of the “order validation” concept. The not validated orders can be administered using a specific procedure. This procedure is described in paragraph 6.5.2.



Fig 119

When the administration time for a non validated order approaches, a specific icon -  - appears on the “Therapy prescription” module on the prescriptions table on the row corresponding to the prescription that generated the order.

The value indicating that the administration time is approaching is set by configuration. In the configuration here described the specified period is three hours.

A dark vertical line indicates the limit of this period on the chart (Fig 120).

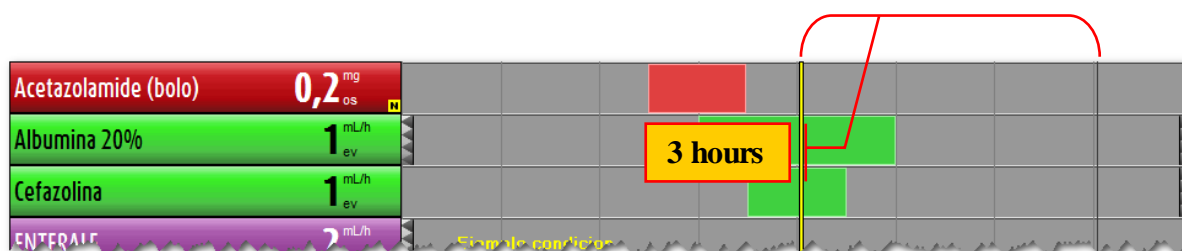



Fig 120

The  icon appears for the conditional prescriptions as well if they are not yet validated. The validity of a prescripional prescription expires when the “Therapy Cycle” expires. Thus conditional prescriptions are automatically validated every time the “Therapy Cycle” is updated. See paragraph 4.2.2 for the explanation of “conditional treatment”. See paragraph 1.3.4 for the explanation of “Therapy Cycle”.

6.4.1.3. Additional information on the executed administrations

The executed orders are represented by grey vertical bars. See Fig 121 for an example.



Fig 121 - Executed orders



The graphic design of the vertical bars provides additional information on the kind of administration executed.

These are:



- it means that the order has been cancelled.



- it means that the order causes the  icon on the “Therapy Prescription” module. The  icon appears if there is not a prescription originating the executed action.

- it corresponds either to the administration of an extemporaneous order (i.e. an administration recorded using the procedure described in paragraph 6.6.3) or to the durative prescription stop time.

- it corresponds to any other case, to indicate an executed order.

6.4.1. Orders summary window

If one of the prescription buttons (the buttons indicated in Fig 113 A) is kept pressed, a summary window opens, listing the orders generated by the prescription (both the future ones and the past and not administered ones - Fig 122).

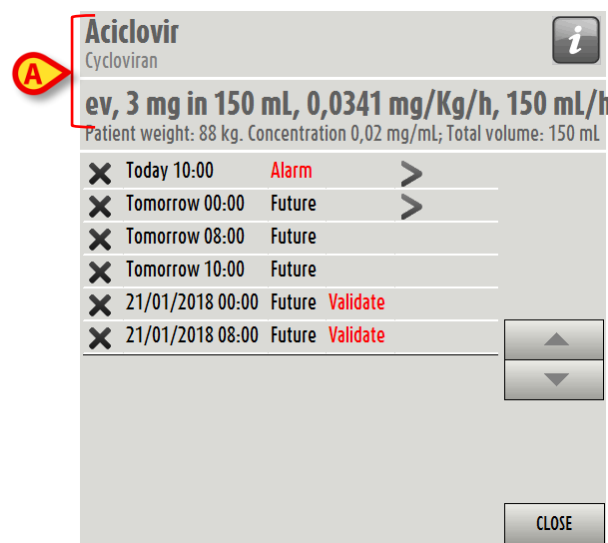


Fig 122

On top are the treatment data (name and administration information - Fig 122 A).
In the central area each row corresponds to an administration order (Fig 125).

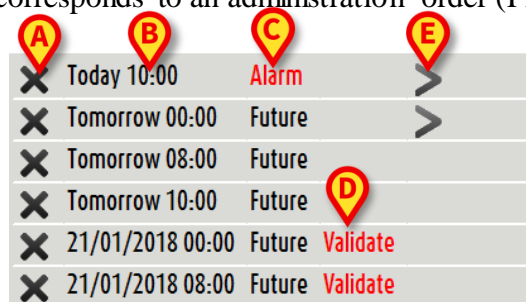


Fig 123

On each row the following information and tools are present:

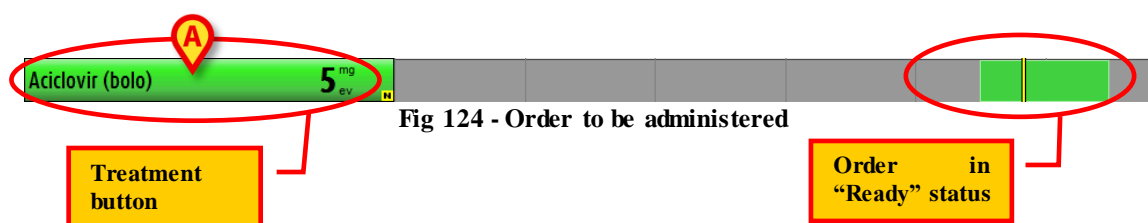
- the cross placed at the beginning of the row (Fig 125 A) makes it possible to delete the corresponding order;
- planned administration date and time (Fig 125 B);

- order status (“alarm” if past, “ready” if scheduled for current time, “future” if planned for a future time - Fig 125 C);
- the “Validate” indication (Fig 125 D), when displayed, signals that the order has not been validated yet;
- the arrow indicated in Fig 125 E makes it possible to document the administration of the corresponding order. Click the arrow to open the administration window shown in Fig 125.

6.5. How to record the treatment administration

To record the administration of a treatment, on the “treatments column” on the left,

- click the button corresponding to the relevant treatment (Fig 124 A).



An administration window opens (Fig 125).

Aciclovir (bolo)
Cycloviran

ev, 5 mg, 0,0568 mg/Kg, at 14:00
Somministrare in 60 minuti.

VALUE 5 mg
TIME 14:00
NOTES

NOTES...

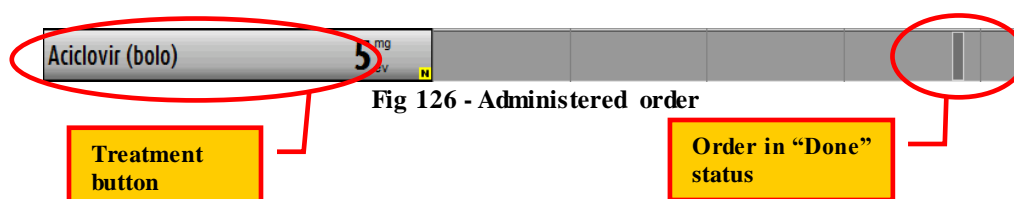
NOW	- 00:10	- 00:30	- 01:00
1	2	3	C
4	5	6	.
7	8	9	0

DO
DELETE
CLOSE

Fig 125 -Order administration window

- Click the **Do** button (Fig 125 A).

The chart changes in the following way



The treatment administration is this way recorded.



The order does not need to be in “Ready” status to be administered. The administration can be recorded before the scheduled prescription time. In this case a user confirmation is required.

6.5.1. Durative treatment administration

The administration recording procedure is slightly different for durative treatments. In these cases it is in fact necessary to record the beginning and the end of the administration.

To record the administration of a durative treatment

- click the treatment button (Fig 127 A).

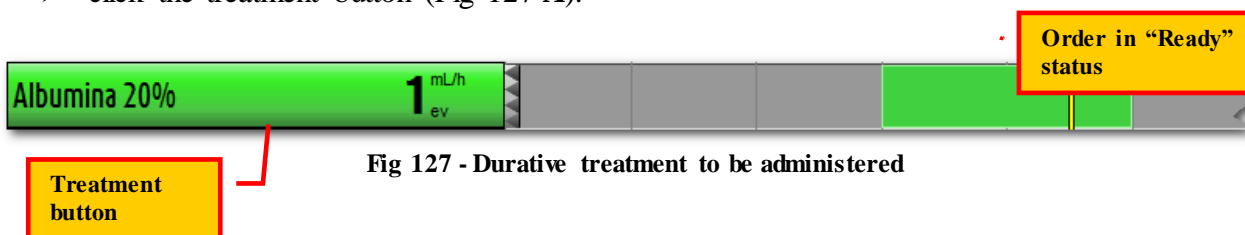


Fig 127 - Durative treatment to be administered

An administration window opens (Fig 128 A).

Fig 128 - Durative administration “start”

- Click the **Start** button (Fig 128).

The beginning of the durative treatment administration is this way recorded. The corresponding button becomes cyan (Fig 129 A). A cyan bar is traced on the chart while the administration goes on (Fig 129 B).

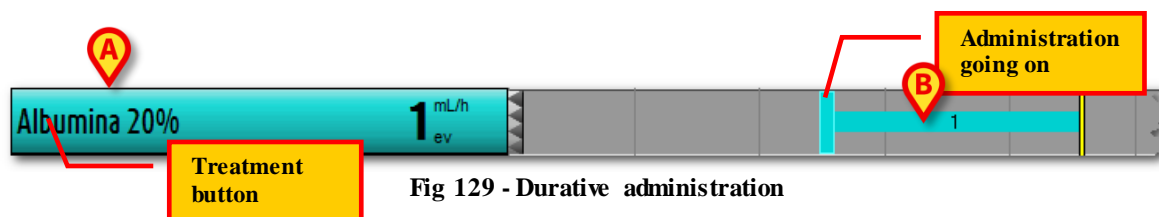


Fig 129 - Durative administration

To record the end of the administration,

- click the treatment button again (Fig 129 A).

A specific window appears (Fig 130).

NOW	- 00:10	- 00:30	- 01:00
1	2	3	C
4	5	6	.
7	8	9	0

Fig 130 - Durative administration "stop"

- Click the **Stop** button (Fig 130).

The chart changes in the following way.

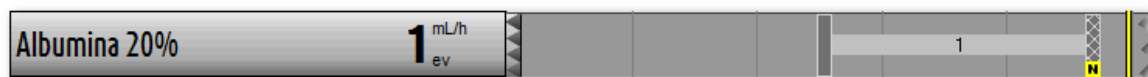


Fig 131 - Durative administration stopped

The duration of the administration is this way represented on the chart.

6.5.2. Administration of an order either expired or not-yet-validated

The order validity expires after a certain time. See paragraph 1.3.7 for the related procedures. These orders are "Expired". An expired order can be administered anyway but, to do that, a specific procedure must be performed.

Here is the procedure.

- Click, on the left, the button corresponding to the treatment that must be administered.

In the example shown in Fig 132 it is “Acetilcisteina”.



Fig 132

A user confirmation is required.

- Click **Yes** to proceed.

The following window is displayed (Fig 133), highlighting the fact that the order is not valid.

WARNING! This prescription is not confirmed. Contact the Physician before the execution or the administration.

Sodio Cloruro 0,9%
Soluzione Fisiologica

24 mL
ev, 1 mL/h, for 24 hours , at 15:00 of 20/01

VALUE **1** mL/h
TIME **17:12**

NOTES A NOTES...

☐ Delivered by a connected pump

NOW	- 00:10	- 00:30	- 01:00 B	START
1	2	3	C	DELETE
4	5	6	.	
7	8	9	0	

CLOSE

Fig 133

- Insert a note specifying the reasons for the administration variation (Fig 133 **A**).
- Click the **Do/Start** button to administer the treatment (Fig 133 **B**).

The administration is this way recorded.



The same procedure can be used to record the administration of a future not-yet-validated order.

6.5.3. Administration with double signature

A treatment can be configured to require a double signature/validation at administration time. I.e. it is necessary that a second user, different from the one that is administering the treatment, validates the administration.

If this is the case, at administration time (i.e. when either the “Do” or “Start” buttons are pressed, depending on the kind of administration), the following window is displayed, signaling that a second signature is required (Fig 134 A).



Fig 134

To administer the treatment it is necessary to

- Insert your username and password (Fig 134 B)
- Click the **Sign** button (Fig 134 C).

The administration of the treatment is this way recorded.



The double signature procedure can be set separately for the prescription and the administration of the treatment. I.e. a treatment can require the second signature at prescription time and not require it at administration time and vice versa.

6.5.4. Changes in the administration values

It is possible to record the changes in the values of the durative administration while it is still in progress.

To do that

- click the prescription button corresponding to the treatment whose values must be changed (Fig 135 A).



Fig 135

The following window appears (Fig 136).

Albumina 20%
Albumina 20%

24 mL
ev, 1 mL/h, for 24 hours , at 15:00 of 20/01

VALUE 1 mL/h
TIME 17:17
NOTES

☐ Delivered by a connected pump

NOW	- 00:10	- 00:30	- 01:00
1	2	3	C
4	5	6	.
7	8	9	0

STOP
CHANGE
CLOSE

Fig 136

- Use the numeric keyboard (Fig 136 A) to set the new administration values (Fig 137 A).
- Insert a note specifying the reasons for the administration variation (Fig 137 B).
- Click the **Change** button (Fig 137 C)

Albumina 20%
Albumina 20%

24 mL
ev, 1 mL/h, for 24 hours , at 15:00 of 20/01

VALUE 3 mL/h
TIME 17:17
NOTES Note

☐ Delivered by a connected pump

NOW	- 00:10	- 00:30	- 01:00
1	2	3	C
4	5	6	.
7	8	9	0

STOP
CHANGE
CLOSE

Fig 137

The chart changes in the following way (Fig 138).

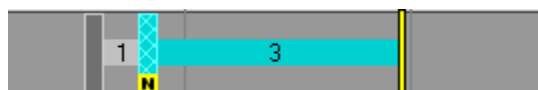




Fig 138

The moment in which the change is recorded is highlighted on the chart by the cyan vertical bar . The old value is specified on the left of the bar ("3" in the figure), the new value is specified on the right ("5" in the figure).



The change is signalled on the "Prescription" module by a specific icon  on the prescription table. The icon means that the values recorded on the "Execution" module are now different from those specified by "Prescription".



The **Change** button can also be used to document the time in which the syringe, the infusion bag or other is changed (according to the infusion type). To do that, just click the **Change** button without indicating any change in the administration values. A chart analogous to that shown in Fig 138 will be displayed, but the administration values will remain unchanged.

6.5.5. The administration window

Some of the administration values (quantities and dosages, for instance) can be edited during the treatment administration phase.

The treatment administration window makes it possible to set or edit these values on the "Therapy Execution" module.

To open the administration window,

- click the prescription button (see Fig 139 for an instance).



Fig 139 - Prescription button

The administration window opens (Fig 140).

A Paracetamolo (bolo)
Tachipirina, Perfalgan

B ev, 500 mg, 5,68 mg/Kg, at 18:00

C VALUE 500 mg
TIME 17:23
NOTES

D (Numeric keypad: NOW, - 00:10, - 00:30, - 01:00, 1-9, 0)

E DO, DELETE, CLOSE, NOTES...

F (Information icon)

Fig 140 - Administration window

On top the treatment name is displayed together with the possible associated protocols (for instance the actual drug name and the active ingredient - Fig 140 A).

The administration information prescribed are displayed in the second row (Fig 140 B).

Administration information is displayed in the central area (Fig 140 C). These data can be changed using the buttons indicated in Fig 140 D. If changes are made to the values originally prescribed, the background colour becomes yellow.

The **-00:10** button changes the administration recording time (10 minutes back per click).

The **-00:30** button changes the administration recording time (30 minutes back per click).

The **-01:00** button changes the administration recording time (1 hour back per click).

The **Now** button sets the current time again.


The numeric keyboard makes it possible to set the administration values.

Free text can be added in the “notes” area.

The buttons indicated in Fig 140 E have the following functions:

The **Do** button records the treatment administration.

The **Cancel** button closes the window without recording the treatment administration.

The **Delete** button deletes the specific order. The orders cancelled this way appear on the chart in the following way -  -.

The Notes button makes it possible to add a note to the administration selecting it from a list of standard phrases. To insert a standard phrase

To add a note

- click the **Notes** button. A window containing the available phrases is displayed (Fig 141).

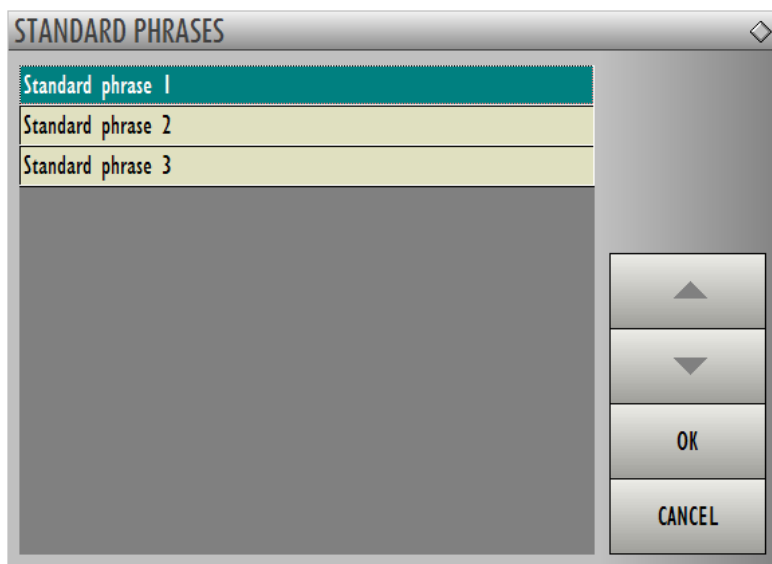


Fig 141 - Standard phrases

The standard phrases can be quickly added to the note. To do that

- click the phrase you want to add. The phrase is highlighted.
- Click the **Ok** button.

The selected phrase is displayed on the administration window. The standard phrase added this way can be completed or edited by the user.



The note inserted this way refers to the action relating the specific order and will be visible on the “Prescription details” window on the Therapy Prescription module on the row corresponding to the action (the “Prescription details” window is described in paragraph 5.9).

The **Info** button (Fig 140 F) makes it possible to access a page containing information on the specific treatment (if configured).

The administration window, when referred to durative treatments, is different.

Fig 142 shows an example.

Albumina 20%
Albumina 20%

i

24 mL
ev, 1 mL/h, for 24 hours , at 15:00

VALUE

1

mL/h

TIME

14:05

NOTES

NOTES...

☐ Delivered by a connected pump

NOW	- 00:10	- 00:30	- 01:00	START
1	2	3	C	DELETE
4	5	6	.	
7	8	9	0	
				CLOSE

Fig 142

The **Start** button is on the window instead of the **Do** button before the administration is started.

After the administration is started the **Stop** button takes the place of the **Start** button.

The **Change** button is on the window while the administration is in progress.

The procedures related to the administration of durative prescriptions are described in paragraph 6.5.1.

The “Delivered by a connected pump” checkbox, if selected, adds the administration values to the patient Fluid Balance (Digistat® Fluid balance module, see the document DIG UD FLDDNT IU 0005 ENG V01 for the description of this module).



6.6. “Execution” module command bar



The various buttons on the “Administration” module command bar (Fig 113 C, Fig 143) make it possible to perform specific actions.






Fig 143 - Command bar

The first 6 buttons from the left (Fig 143 A) make it possible to change the way the different items are displayed on the window.


The  and  buttons make it possible to scroll up and down the screen contents.

The  and  buttons make it possible to scroll left and right the screen contents.

The  button brings back to the original display mode. When a time different from present time is displayed the button turns red and starts flashing .

The  button makes it possible to switch from 8 hours to 24 hours display mode (and vice versa).

6.6.1. 24 hours display mode

The 8 hours display mode is shown in the previous figures. The 24 hours display mode is shown in Fig 144. When the 24 hours display mode is activated the button on the command bar changes in the following way - .

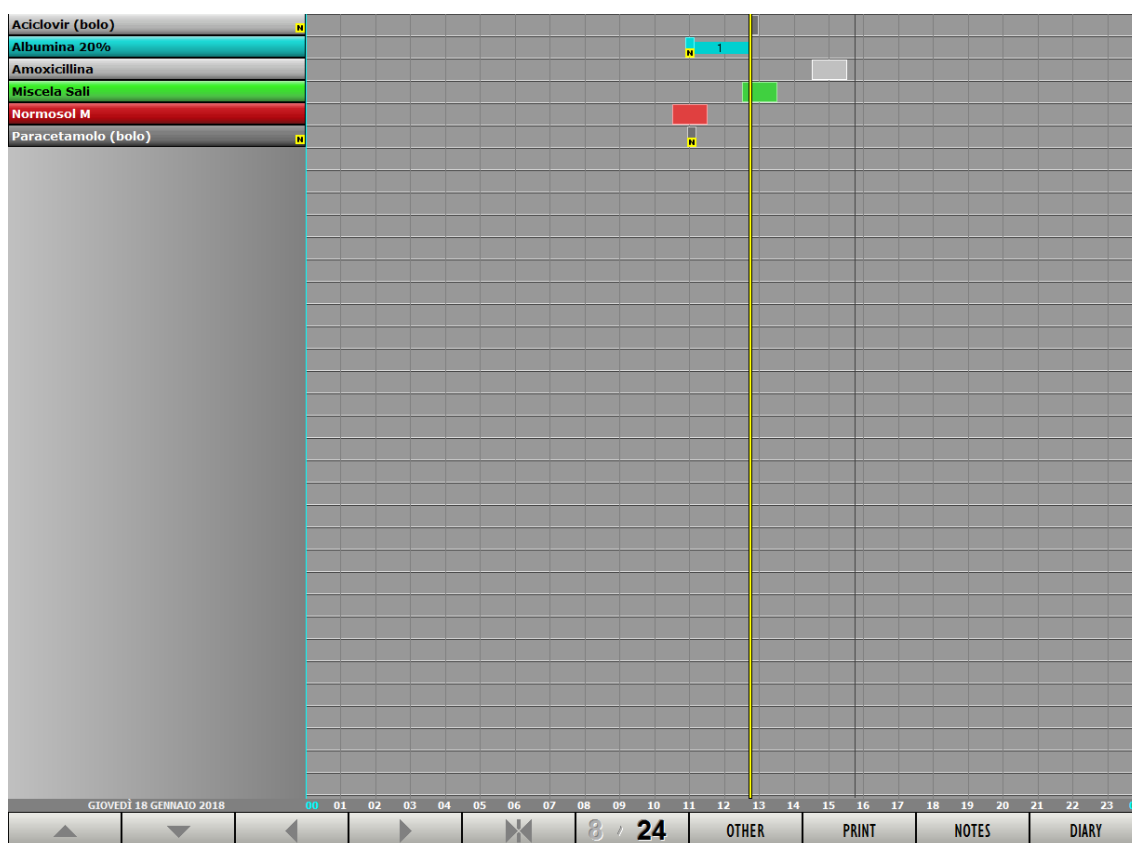


Fig 144 - 24 hours display mode

Fig 145 shows, as example, a detail of a 24 hours display screen.

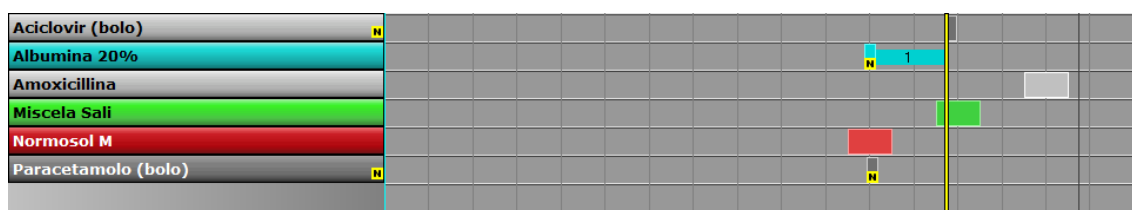



Fig 145 - 24 hours display (detail)

This is a read-only display. I.e. it is not possible to operate on the screen contents when the 24 hours display is activated.

The time span displayed goes from 0:00 to 24:00 of the current day.

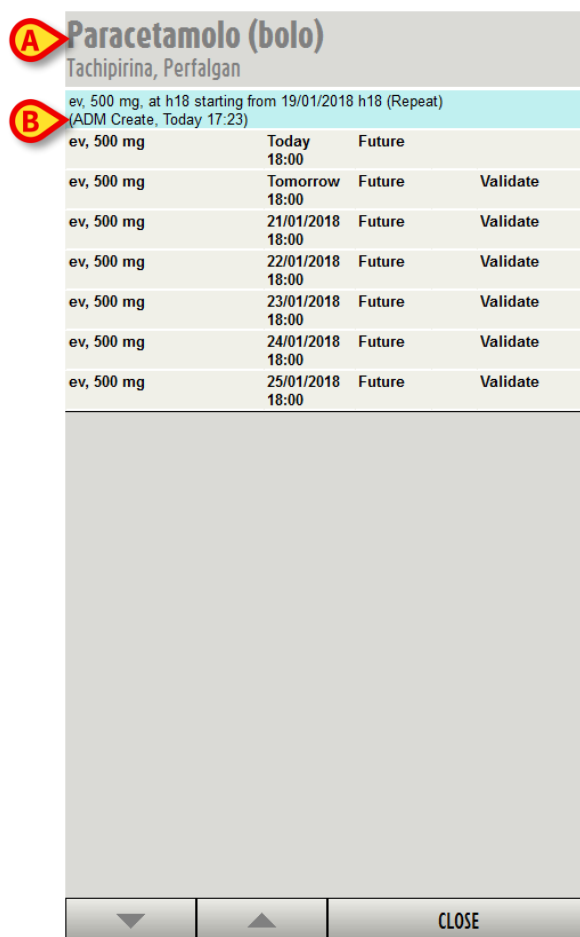
Only the prescriptions having at least one order in the time span considered are displayed.

This display mode offers an immediate and complete view of the patient's treatment plan in the 24 hours.

To go back to normal display mode (8 hours) click the  button again.

6.6.1.1. Orders summary

When in 24 hours mode, clicking one of the treatment buttons (Fig 145 A), a window listing all the orders generated by the clicked treatment is displayed. See for example Fig 146.



Paracetamolo (bolo)			
Tachipirina, Perfalgan			
ev, 500 mg, at h18 starting from 19/01/2018 h18 (Repeat)			
(ADM Create, Today 17:23)			
ev, 500 mg	Today 18:00	Future	
ev, 500 mg	Tomorrow 18:00	Future	Validate
ev, 500 mg	21/01/2018 18:00	Future	Validate
ev, 500 mg	22/01/2018 18:00	Future	Validate
ev, 500 mg	23/01/2018 18:00	Future	Validate
ev, 500 mg	24/01/2018 18:00	Future	Validate
ev, 500 mg	25/01/2018 18:00	Future	Validate

Fig 146

On top the name of the prescribed treatment is displayed (Fig 146 A).

The administration information is displayed in the second row (administration values, when and who prescribed the treatment - Fig 146 B)

The other rows correspond to the different orders: For each order the following information can be provided (see Fig 147).

Paracetamolo (bolo)			
Tachipirina, Perfalgan			
ev, 500 mg, at h18 starting from 21/01/2018 (ADM create, Today 17:23)			
ev, 500 mg	Today 18:00	Future	
ev, 500 mg	Tomorrow 18:00	Future	Validate
ev, 500 mg	21/01/2018 18:00	Future	Validate
ev, 500 mg	22/01/2018 18:00	Future	Validate
ev, 500 mg	23/01/2018 18:00	Future	Validate
ev, 500 mg	24/01/2018 18:00	Future	Validate
ev, 500 mg	25/01/2018 18:00	Future	Validate

Fig 147

- Fig 147 A - Prescribed Dose/Quantity (if the order is to be administered) or administered Dose/Quantity (if the order has been administered)).
- Fig 147 B - Prescribed time for the administration.
- Fig 147 C - Order status.
- Fig 147 D - Administration author, date and time (if the treatment has been administered).
- Fig 147 E - Order validity (if the order is to be administered, an indication is displayed here: se l'ordine è da somministrare viene posta qui una indicazione se si tratta di un ordine scaduto o da validare).

6.6.2. The “Other” function: extemporaneous orders

The **Other** button on the command bar (Fig 148 A) makes it possible to record the administration of a treatment that was not previously prescribed on the “Therapy Prescription” module.



Fig 148

This function can be used when the clinical staff must administer a treatment that is not on the patient treatment plan.

This is the procedure:

- click the **Other** button.

The following window opens:

Nursing	Farmaci	Infusioni	Drip	Laboratorio	Diagnostica	Invasività	Emergenza
Broncoaspirazione		Mater Antidec			Lav Dren Cont		
Calze elastiche		Medicazione ferite			Lav Vesc Cont		
Cannule nasali per O2terapia		Mobilizzare					
Catetere Vescicale		Nursing accessi					
Clisma		Pronazione					
CPAP		Riscaldamento attivo					
Drenaggio toracico pneumonectomia		Rotazione paziente					
Fisioterapia		Sonda Rett					
Ghiaccio		Supinazione					
Ginn resp		Dietr libera					
Ginn vasc		Estubazione					
Impacco caldo-umido		Lav Dren					
		SCROLL UP	SCROLL DOWN			CLOSE	

Fig 149 - Other treatment

The boxes on the window are buttons. Each button is associated to a treatment. The treatments are grouped into classes. The labels placed on top of the window display the names of the various classes.

To display the items of a specific class

- click the corresponding label.

Click the **Drip** label, for instance (Fig 150 A), to display the treatments belonging to the corresponding class (Fig 150).



Fig 150 - Drips

When the number of available treatments of a class exceeds the number of available cells the buttons **Scroll Up** and **Scroll Down** (Fig 150 B) activate, making it possible to scroll the treatments list.

The various treatments are characterized by a color indicating the class to which they belong. The classes and their related colors are listed in paragraph 2.4.

6.6.3. Extemporaneous orders administration

To record the administration of a treatment that is not part of the patient's treatment plan

- click the **Other** button.

The window shown in Fig 149 and Fig 150 opens.

- Click the label corresponding to the class to which the relevant treatment belongs (Fig 150 B).

Only the treatment-buttons belonging to that specific class are this way displayed on the window.

- Click the button corresponding to the wanted treatment (the name of the treatment is displayed on the button).

Another window appears, making it possible to set the values of the specific administration.

- Use the numeric keyboard to set the administration values.
- Click the **Do** button to record the treatment administration

The administration is now displayed on the chart as “Executed”.

The administration is also displayed on the treatment plan on the “Prescription” module as “Executed”.



The administration window is described in paragraph 6.5.5.

6.6.4. “Execution” module print functionalities

The **Print** button on the “Administration” module’s command bar (Fig 151) makes it possible to create different kinds of documents.

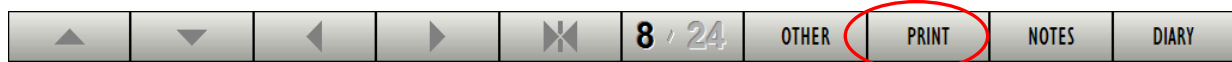


Fig 151 - Command bar

Click the **Print** button to open a window making it possible to define the features of the document to be printed (Fig 152).

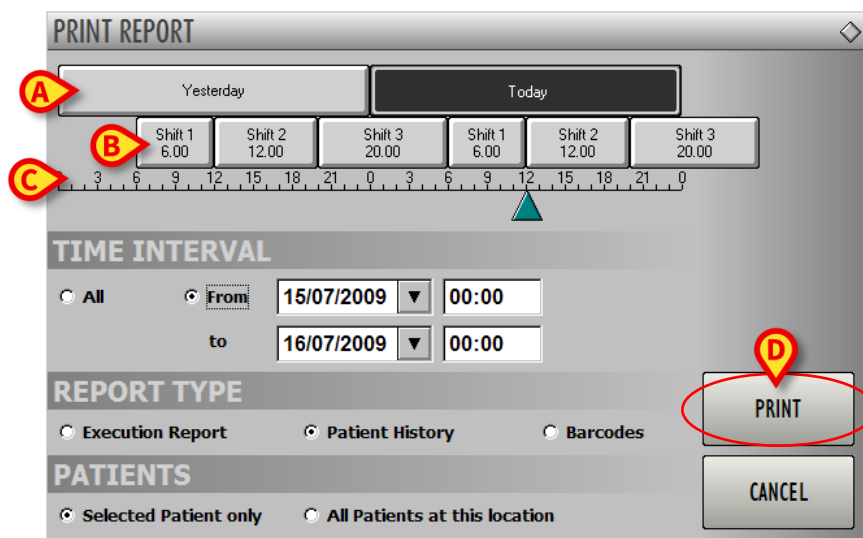


Fig 152 - Print options

The “Print report” window contains several tools making it possible to define the print report features.

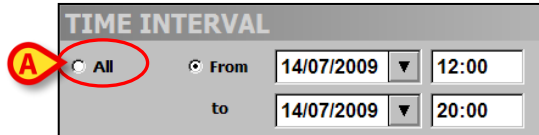
These are the tools available:

The **Yesterday** and **Today** buttons (Fig 152 A) make it possible to print either the data referring to the current day or the data referring to the day before. The selected option is highlighted.

The “Shifts” buttons (**Shift 1**, **Shift 2** etc. Fig 152 B) limit the printed data to those referring to a specific shift. The selected shift is highlighted.

The time bar (Fig 152 C) indicates the current time. Current time is between 11:00 and 12:00 o’clock in the figure.

The “Time Interval” area (Fig 153) makes it possible to specify the beginning and the end of the time interval of the data to be printed. The “All” checkbox selection (Fig 153 A) prints all the available data, not depending on the time interval.



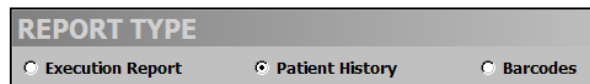
A dialog box titled "TIME INTERVAL". It contains three radio buttons: "All" (selected and circled in red with a yellow 'A' callout), "From", and "to". The "From" and "to" options are disabled. The "From" section shows a date "14/07/2009" and a time "12:00". The "to" section shows a date "14/07/2009" and a time "20:00".

Fig 153 - Print options - Time Interval

The “Report type” area (Fig 154) makes it possible to select the kind of print report. Several options are available. The example here described offers the following options:

- execution report;
- patient history;
- administered treatments barcodes.

Click the corresponding checkbox to select a report type.



A dialog box titled "REPORT TYPE". It contains three radio buttons: "Execution Report", "Patient History" (selected), and "Barcodes".

Fig 154 - Print options - Report Type

The “Patients” area (Fig 155) makes it possible to print either the single selected patient data or the data of all the patients in the selected location. Click the corresponding checkbox to select an option.



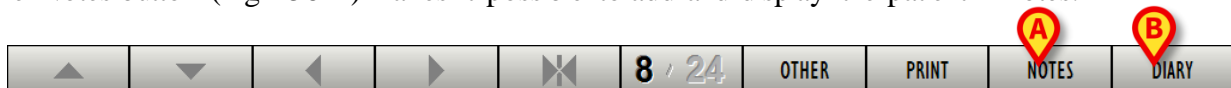
A dialog box titled "PATIENTS". It contains two radio buttons: "Selected Patient only" (selected) and "All Patients at this location".

Fig 155 - Print Options - Patients

- When all the report features are set click the **Print** button (Fig 152 **D**) to display a print preview of the report.

6.6.5. Patient notes

The Notes button (Fig 156 **A**) makes it possible to add and display the patient’s notes.



A horizontal command bar with several buttons. From left to right: a triangle pointing up, a triangle pointing down, a triangle pointing left, a triangle pointing right, a double arrow pointing left, a display showing "8 / 24", a button labeled "OTHER", a button labeled "PRINT", a button labeled "NOTES" (circled in red with a yellow 'A' callout), and a button labeled "DIARY" (circled in red with a yellow 'B' callout).

Fig 156 - Command bar

The procedures related to this button are described in paragraph 5.11.

6.6.6. Patient clinical diary

The **Diary** button (Fig 156 **B**) makes it possible to access and use the DIGISTAT® “Clinical Diary” module if the module is installed. This module makes it possible to create and manage the patient’s clinical diary.


See the specific documentation to know the DIGISTAT® “Clinical Diary” module functions and features.

7. The “Central Station” module

The “Central Station” module displays on the same screen the state and the needs of all the patients in the ward, providing real time information on each patient’s treatment plan and on the related schedule.

7.1. Module selection

To access the module

- click the corresponding icon -  on the lateral bar.

The “Central Station” screen opens (Fig 157).

7.2. “Central Station”

Fig 157 shows the Therapy “Central Station”.

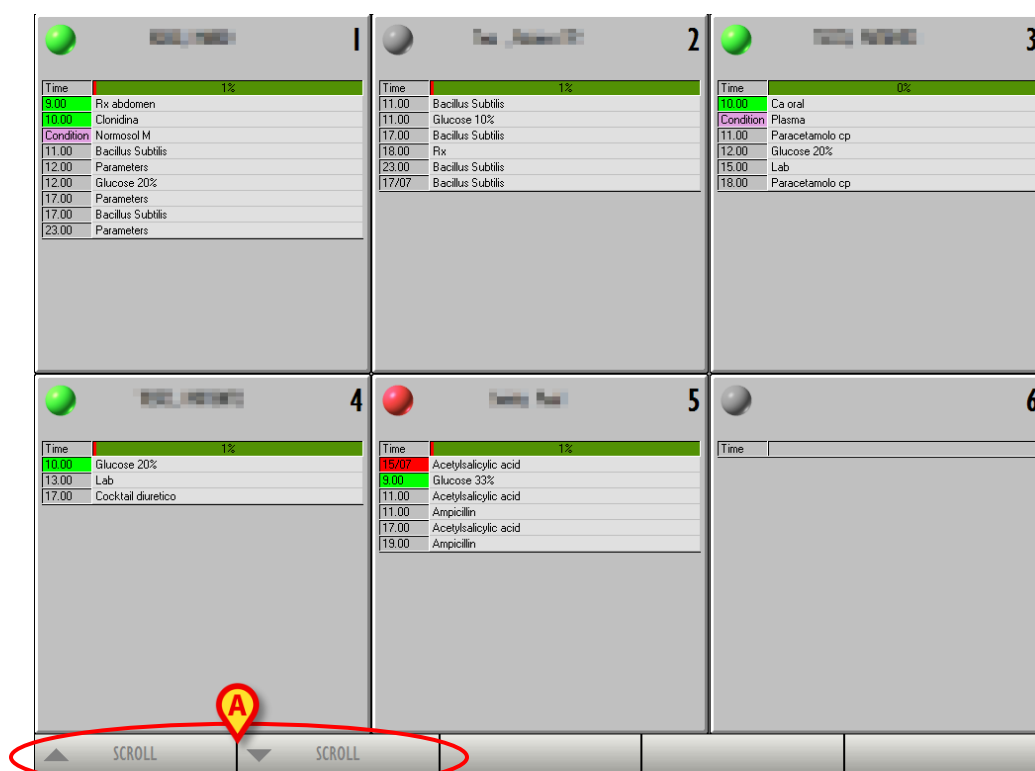


Fig 157 - Stazione Centrale

The screen contains several boxes; each box corresponds to a bed in the ward (Fig 158). In case the configured beds are more than those displayed on screen the scroll buttons indicated in Fig 157 A activate; click these button to display the beds that are not currently displayed.

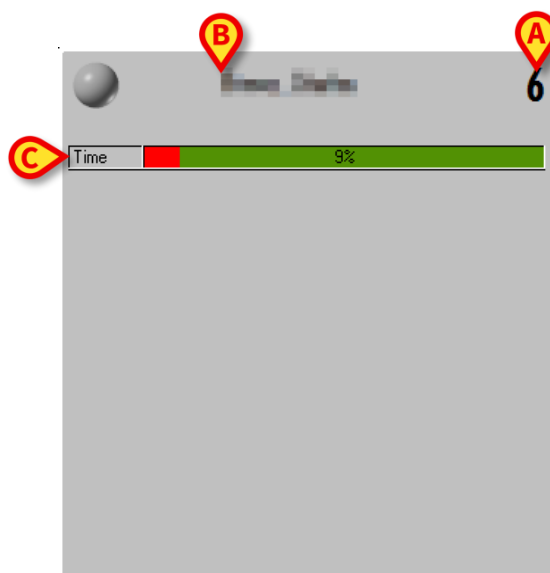


Fig 158 - Bed

The bed number is displayed on the top-right corner of the box (Fig 158 A).

When a patient is admitted to the bed the patient name appears on top of the box (Fig 158 B). Below the patient's name a temporal bar indicates the time that passed from the last therapy plan update.



The time bar has the same function and displays the same values of the tools described in paragraph 2.5.

In Fig 158 C the time bar indicates that the 9% of the total duration of the treatment plan validity passed.

The list of the patient's active orders is displayed in the central area of the patient-box (Fig 159). The orders are displayed by urgency: on top the alarmed ones, then the "ready" ones, then the conditional ones, then the orders to be executed in the future.

Time	Order
10.00	Clonidina
9.00	Rx abdomen
Condition	Normosol M
11.00	Bacillus Subtilis
12.00	Parameters
12.00	Glucose 20%
17.00	Parameters
17.00	Bacillus Subtilis
23.00	Parameters

Fig 159 - Orders


9.00	Rx abdomen
10.00	Clonidina
Condition	Normosol M
11.00	Bacillus Subtilis
12.00	Glucose 20%
12.00	Parameters
17.00	Parameters
17.00	Bacillus Subtilis
23.00	Parameters

Fig 160 - Orders (detail)

The treatment name and the planned administration time are displayed for each order.

The planned administration time can be highlighted in different ways to provide information on the order state.

- Red means that the administration is late.
- Green means that the order should be administered now.
- Grey means that the administration is planned in the future.
- Purple indicates a conditional prescription (see paragraph 4.2.2 for an explanation of the meaning of “conditional prescription”).

When the  icon appears beside an order it means that the order is not validated (there are two possibilities: either the order is not yet validated or the order validity expired).

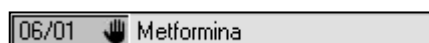


Fig 161 - Order not validated

If there is at least one late order the round button on the top left corner of the box turns red (Fig 162)



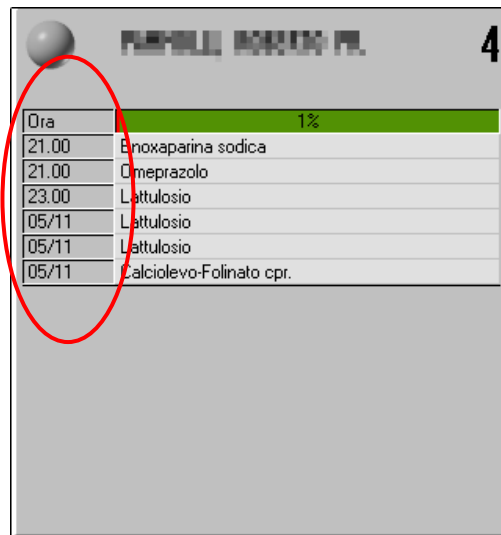
Fig 162

If there is at least one order to be administered “now” the round button on the top left corner of the box turns green (Fig 163).



Fig 163

For the orders planned for the current day the scheduled administration time is indicated; for the orders planned for a different day the administration date is indicated (Fig 164).



Ora	
21.00	Enoxaparina sodica
21.00	Omeprazolo
23.00	Lattulosio
05/11	Lattulosio
05/11	Lattulosio
05/11	Calciolevo-Folinate cpr.

Fig 164 - Future orders

- Click the patient boxes to access the corresponding treatment administration screen (“Therapy Administration” module - Fig 113).

8. Contacts

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

Here are the manufacturer contacts:

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