

# Fluid Balance User Manual

Version 8.0

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## 1. Fluid Balance



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

## **1.1. Introduction**

The Fluid Balance module makes it possible to document the patient's fluid balance by recording daily fluid input and output. The administered volumes can either be acquired automatically from the configured infusion devices or inserted manually by the clinical staff. The system calculates both partial and total balances. The "in" and "out" items are configurable according to the department's needs.

## **1.2. Module selection**

To select the Fluid Balance module

 $\succ$  Click the corresponding icon -  $\bigcirc$  - on the lateral bar.

If no patient is selected the module's functionalities are not available. A specific notification is provided in this case: "No Patient Selected". When a patient is selected the screen displays the selected patient's data.

## **1.3. Patient selection**

To select a patient,

Click the Patient button on the Control Bar (Fig 1 A).



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



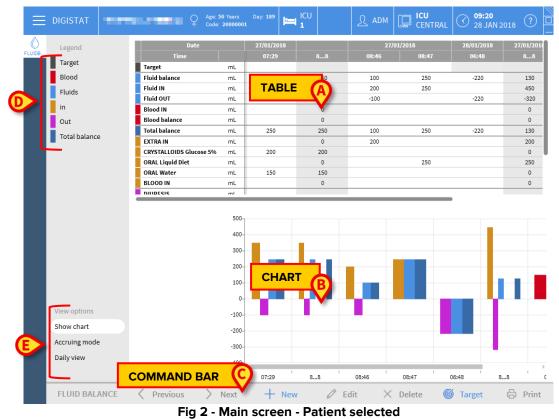
Other modules can be configured for the patient selection in place of Patient Explorer, depending on the configuration of the Digistat Suite. If this is the case, see the specific documentation for instructions.

When a patient is selected the data displayed on the screen are referred to the selected patient (see Fig 2 for an instance).

## **1.4. Fluid Balance main screen**

The main screen is formed of three main areas:

- a table (Fig 2 A, see paragraph 1.5 for the description),
- a chart (Fig 2 **B** see paragraph 1.6),
- a command bar (Fig 2 C see paragraph 1.7).



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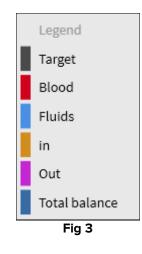
These areas are described in the referenced paragraphs.

In the column on the left there are:

- a) A legend making it possible to understand the color code used for the balance items (Fig 2 **D**).
- b) Three balance display options (Fig 2 E).

## 1.4.1. Legend

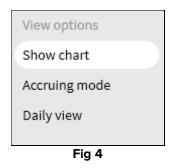
The legend makes it possible to understand the meaning of the colors characterizing the various balance items (Fig 3).



Target - indicates the daily target. See paragraph 1.12.
Blood - indicates the items belonging to the "Blood" class.
Fluids - indicates the items belonging to the "Fluids" class.
In - indicates the input items.
Out - indicates the output items.
Total Balance - indicates the total balance.

## **1.4.2.** Display options

In the area indicated in Fig 2 **E** and enlarged below there are the data display options.



The **Show Chart** option, if selected, displays the fluid balance chart. Otherwise only the table is displayed. See paragraph 1.6.

The Accruing Mode option displays the data in accruing mode. See paragraph 1.9

The Daily View displays the data in daily mode. See paragraph 1.10

A fourth option **Values/g** can be enabled by configuration. Given the patient weight, this option makes it possible to display data as fluid amount per gram.

## 1.5. Table

The table (Fig 5) displays all the "in" and "out" values of the fluids to and from the patient, providing at the same time total and partial fluid balances.

	Date			28/0	1/2018		29/01	l/2018
	Time		09:22	10:39	12:09	88	09:03	88
	Target	mL						
	Fluid balance	mL	350	-180	110	280	80	08
	Fluid IN	mL	350		110	460	80	80
	Fluid OUT	mL		-180		-180		0
	Total balance	mL	350	-180	110	280	80	08
	EXTRA IN	mL				0	80	08
	CRYSTALLOIDS Glucose 5%	mL	150			150		0
_	ENTERAL Nutrison MCT	mL			110	110	0	0
	ORAL Water	mL	200			200		0
	DIURESIS	mL		-180		-180		0
	DRAINAGES	mL						
	EXTRA OUT	mL						
L	PERSPIRATIO	ml						

Fig 5

## 1.5.1. How to read the table - Rows

On the left are the names of the fluid balance items whose values are specified in the table (Fig 5 **A**). The first cell of every row indicates the name of the balance item whose values are displayed in the row itself, the color characterizing its class and the unit of measure.

#### 1.5.1.1. Date

The first row indicates the date to which the values on the table refer.



The system considers a 24 hours period (configurable) as one "clinical day". The "clinical day" usually begins at 8:00 o'clock (configurable). Therefore, a day starts at 8:00 and ends the morning after at 8:00. All the values recorded during this period are assigned by the system to the same clinical day and labelled together. I.e.: the balance of the 27th of January starts at 8:00 a.m. on the 27<sup>th</sup> and ends at 8:00 a.m. on the the 28<sup>th</sup>. A value inserted at 6:48 a.m. on the 28<sup>th</sup> belongs to the balance of the previous day (27<sup>th</sup>). The table, in this case, looks like the one shown in Fig 7. Here the **A** column shows the total balance of the 27<sup>th</sup> of January, the **B** column shows the last value inserted for that day, at 6:48 a.m. on the 28<sup>th</sup>. The **C** column shows the value inserted at 8:47 a.m. on the 27<sup>th</sup>. The **B** and **C** columns both belong to the balance of the same day (displayed in grey, column **A**).

			0	B	A
Date		27/01	1/2018	28/01/2018	27/01/2018
Time		08:46	08:47	06:48	88
Target	mL				
Fluid balance	mL	100	250	-220	130
Fluid IN	mL	200	250		450
Fluid OUT	mL	-100		-220	-320
Blood IN	mL				0
Blood balance	mL				0
Total balance	mL	100	250	-220	130
EXTRA IN	mL	200			200
CRYSTALLOIDS Glucose 5%	mL				0
ORAL Liquid Diet	mL		250		250
ORAL Water	mL				0
BLOOD IN	mL				0



#### 1.5.1.2. Time

The second row displays the time of every fluid balance calculation.

Date		28/01	/2018		29/01	/2018
A Time	09:22	10:39	12:09	88	09:03	88
		Fig 8				

Time is automatically recorded every time a fluid value is recorded. See paragraph 1.8.1 for the fluid balance values recording procedure. The column displaying the daily total balances is indicated by the "8... 8" label. On this column, the M icon, when displayed, indicates that there are user notes referring to that balance.

#### 1.5.1.3. Target

The third row displays the daily target, i.e. the target balance indicated for the patient.

	Date		27/01/2018		27/01/2018 28/01/2018 27/01/20		18 28/01/2018	
	Time		08:46	08:47	06:48	88	09:19	88
A Target		mL						300
				Fig 9	Target			

Fig 9 - Target

The daily target can be specified both for the current and for the following day. See paragraph 1.12 for the daily target setting procedure.

#### 1.5.1.4. Total balances

Three lines, highlighted blue, display the total balances (Fig 10).



Fig 10 - Total Bilances

The total balance, the total "in" balance and the total "out" balance are displayed (in this order).

#### 1.5.1.5. Blood balance

Three lines, highlighted red, display the blood balances (Fig 11).

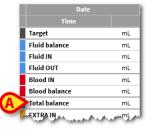
Date	
Time	
Target	mL
Fluid balance	mL
Fluid IN	mL
Fluid OUT	mL
Blood IN	mL
Plood balance	D.L.
Total balance	mL_

Fig 11 - Blood balance

The blood IN balance, the blood OUT balance and the total blood balance (the sum of "Ins" and "Outs") are displayed.

#### 1.5.1.6. Total balance

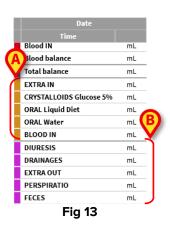
The "Total Balance" row displays the total balance, considering all the in and out items.





#### 1.5.1.7. Detailed IN and OUT values

The rows marked yellow display the detailed fluids IN values (Fig 13 **A**). The rows marked magenta display the detailed fluids OUT values (Fig 13 **B**).





*If the Infusion module is installed the values coming from the infusion pumps are automatically acquired.* 

## 1.5.2. How to read the table - columns

A column is added to the table every time a user specifies any fluid values. See paragraph 1.8.1 for the related procedure.

The first cell of every column displays the time the column was added. The time displayed, therefore, is the values insertion time (Fig 14 **A**).

Date			28/01	29/01/2018			
Time		A 09:22	10:39	12:09	88	09:03	88
Target	mL						
Fluid balance	mL	350	-180	110	280	80	80
Fluid IN	mL	350		110	460	80	80
Fluid OUT	mL		-180		-180		0
Total balance	mL	350	-180	110	280	80	80
EXTRA IN	mL				B °	80	80
CRYSTALLOIDS Glucose 5%	mL	150			150		<b>(</b> )
ENTERAL Nutrison MCT	mL			110	110	0	0
ORAL Water	mL	200			200		0
DIURESIS	mL		-180		-180		0
DRAINAGES	mL						
EXTRA OUT	mL						
PERSPIRATIO	ml						

Fig 14 - Table

The total fluid values referring to the previous day are displayed in a specific column, characterized by the grey background color (Fig 14 **B**). This column is automatically added when the clinical day begins and is updated during the day with the new values specifications. At daily balance closing time the column is "frozen" and a new column is created. The daily balance closing time depends on a configuration parameter. In the configuration here explained the clinical day ends at 8:00. The last column of the table (Fig 14 **C**) displays the total values for the current day updated to the present time.

The first cell of the "Totals" column displays the date to which the total balances refer (Fig 15 **A**); the second cell specifies the relevant time span (Fig 15 **B** - in the present configuration it is 8:00 to 8:00); the third column displays, if specified, the daily target (Fig 15 **C**).



Fig 15

Specific information tooltips are displayed when the mouse pointer indicates the column headings on the table.





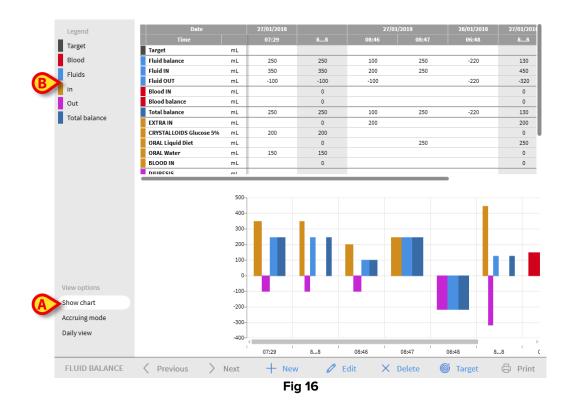
## 1.5.3. Disable Daily Balance

A configuration option makes it possible to disable the daily balance calculation (i.e. the grey column indicated in Fig 14 **B**) and display instead a single total balance column on the right. When this mode is activated, the "Daily mode" option and the **Target** button are disabled (ref. sections 1.10 and 1.12).

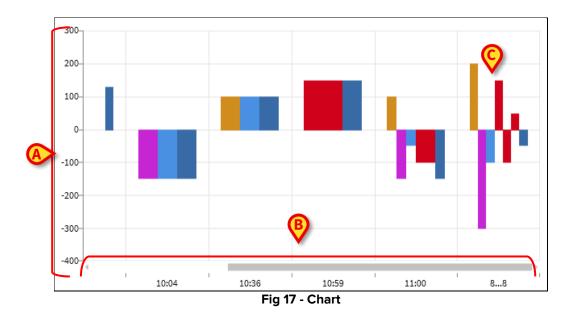
This display mode is enabled/disabled by the *DisableDailyBalance* system option. Refer to the system administrators for more information.

## 1.6. Chart

The lower part of the Fluid Balance main screen (Fig 16 **A**) displays in a chart the balance values specified in the table. The chart is displayed only when the corresponding display option is selected.



The fluid IN and OUT quantities can be read on the vertical axis (in ml - Fig 17 **A**). The fluid variation date and time can be read on the horizontal axis (Fig 17 **B**).



The variations in the fluid balance are represented by vertical bars. The color corresponds to the color of the corresponding class, as explained by the legend (Fig 16 **B**). Move the mouse pointer on the chart to display a tooltip indicating the reference class. The bars above the 0 represent fluid INs, the bars below the 0 represent fluid OUTs.

When the clinical day changes (at 8:00 a.m. in this configuration), a bar labelled as 8... 8 is added, showing all the daily total balances.

## **1.7. The command bar**

The buttons on the command bar of the Fluid Balance module main screen make it possible to perform different procedures.



This paragraph briefly describes the functions of the different buttons. The related procedures are described later in the indicated paragraphs.

The Previous and Next buttons make it possible to display the balance values inserted before or after the time currently displayed.

New - use this button to insert values in the fluid balance table (see paragraph 1.8).

Edit - use this button to edit the values of an already existing balance (see paragraph 1.8.3).

Delete - use this button to delete one of the inserted balances (see paragraph 1.8.4).

Target - use this button to set the daily target (see paragraph 1.12).

Print - use this button to access the system's print functionalities (see paragraph 1.13).

## **1.8. Data entry: the "New" button**

The **New** button on the command bar (Fig 19) makes it possible to record a change in the patient's fluid balances (i.e. to insert a fluid balance value - see paragraph 1.8.1 for an example of this functionality).



Click the **New** button to access the following screen (Fig 20).

9
6
3
•

Fig 20 - data entry window

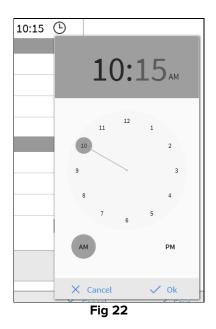
On the window the following tools are available:

#### Date/Time indicator (Fig 20 A)

Current date/time are set by default, i.e. the time in which the **New** button is clicked. To change the date click the button. A calendar opens, making it possible to select the date to which the balance refers (Fig 21).

21/03/2017								
10:13	201							
3000	П	le,	ма	r 2.	L			
	<		Ма	arch 20	17		>	
mL	L	m	m	g	v	s	d	
mL			1	2	3	4	5	
mL	6	7	8	9	10	11	12	
mL	13	14	15	16	17	18	19	
	20	21	22	23	24	25	26	
mL	27	28	29	30	31			
	F	ig 2	21					

To change the time, click the 🕑 button. A clock making it possible to select the time to which the balance refers is displayed (Fig 22).



It is not possible to set a future time.

#### Patient weight indication (Fig 20 B)

The patient weight indication can be enabled or not by configuration. If enabled, the patient weight must be here specified at every balance insertion. The patient weight indication enables the Values/Grams display mode described in paragraph 1.4.2.

#### Balance items table (Fig 20 C)

In this table the balance items are inserted. To do that, click the balance item you want to add, on the right of the unit of measure (Fig 23 A).

( Input	(	A
EXTRA IN	mL	
CRYSTALLOIDS	mL	
Glucose 5%		
ORAL	mL	
Liquid Diet		
ORAL	mL	
Water		
() Output		
DIURESIS	mL	
DRAINAGES	mL	
EXTRA OUT	mL	
PERSPIRATIO	mL	
	Fig 23	

To specify the balance values you can use either the workstation keyboard or the virtual keyboard indicated in Fig 20 **E**.

#### Notes (Fig 20 B)

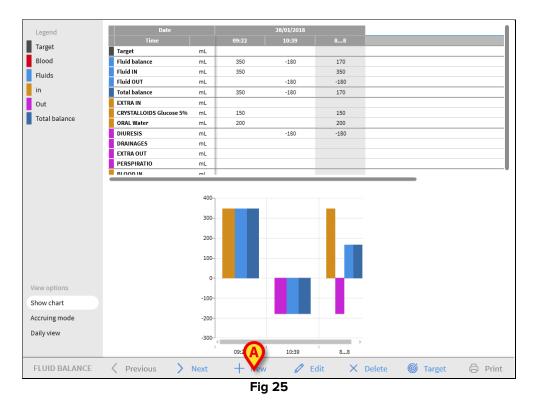
In the notes area it is possible to add any note as free text. If there is a note referring to a balance specification, a specific icon is displayed on the balances table, alongside the insertion time (Fig 25 **A**). Move the mouse pointer on the icon to display a tooltip containing the full note text.



Fig 24

### **1.8.1.** How to insert the balance values

This paragraph describes, using an example, the fluid balance values insertion procedure.



Click the New button on the command bar (Fig 25 A). The following window opens (Fig 26).

l balance data entry						
Date	28	3/01/2018				
Time		10:43	Ŀ			
) Input						
EXTRA IN	mL					
CRYSTALLOIDS Glucose 5%	mL			7	8	9
ENTERAL Nutrison MCT	mL				_	
ORAL Water	mL		_	4	5	6
) Output						
DIURESIS	mL		- 1	1	2	3
DRAINAGES	mL			с	0	
EXTRA OUT	mL			Ľ	0	•
PERSPIRATIO	mL					
otes						
Add new item			×	Cancel	~	Save



> Insert the balance values using either the workstation keyboard or the virtual keyboard on the right. See Fig 27 **A** for an example.

- Add new item			×	Cancel		Save
						B
tes						
PERSPIRATIO	mL					
EXTRA OUT	mL	50		С	0	·
DRAINAGES	mL	V		6	•	
DIURESIS	mL	A		1	2	3
) Output						
ORAL Water	mL			4	5	6
ENTERAL Nutrison MCT	mL	70				
Glucose 5%	mL			1	ð	9
CRYSTALLOIDS	mL	<b>V</b>		7	8	0
EXTRA IN	mL	A				
) Input						
Time		10:44	(L)			
Date	28	/01/2018				

Click the Save button (Fig 27 B). A column is this way added to the balance table (Fig 28 **A**).

Date	Date			28/01/2018 A				
Time		09:22	10:39	10.44	88			
Target	mL							
Fluid balance	mL	350	-180	-30	140			
Fluid IN	mL	350		220	570			
Fluid OUT	mL		-180	-250	-430			
Total balance	mL	350	-180	-30	140			
EXTRA IN	mL			150	150			
CRYSTALLOIDS Glucose 5%	mL	150			150			
ENTERAL Nutrison MCT	mL			70	70			
ORAL Water	mL	200			200			
DIURESIS	mL		-180	-200	-380			
DRAINAGES	mL							
EXTRA OUT	mL			-50	-50			
PERSPIRATIO	mL							
		Eia	20					

Fig 28

Total and partial balances calculations are automatically performed.

Values automatically acquired from the infusion devices are characterized by a specific icon - 🧷

Other balance items can be added to the table by selecting them from a set of preconfigured items. See paragraph 1.8.2 for the procedure.

#### **1.8.1.1.** Configurable fields

Fluid Balance module provides to clinicians a calculation engine that permits the creation of additional parameters calculated according to clinicians' specifications.

Refer to the system administrator for information related to this feature of the product.

#### **1.8.2.** How to add a balance item

It is possible to add a new item to those listed in the "Fluid Balance items" table,

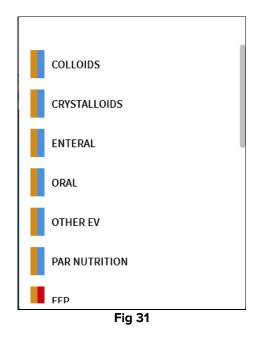
Fluid balance data entry							
Date	2	8/01/2018					
Time		10:06	Ŀ				
( Input							
EXTRA IN	mL						
CRYSTALLOIDS Glucose 5%	mL			7	8	9	
ORAL Liquid Diet	mL						
ORAL Water	mL			4	5	6	
()) Output							
DIURESIS	mL			1	2	3	
DRAINAGES	mL			C	•		
EXTRA OUT	mL			L	0	·	
PERSPIRATIO	mL						
Notes							
Ø							
+ Add new item			×	Cancel	$\checkmark$	Save	
Fig 29 - Add new item							

Click the **Add New Item** button on the data entry window (Fig 29 **A**).

The following window is displayed

Name	<b>V</b>
Label	Ψ.

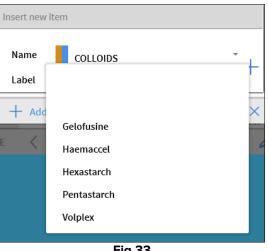
Click the arrow indicated in Fig 30 A. A menu containing all the configured items opens (Fig 31). The different items are described by the Fluid Balance module's color code. See the "Legend" described in paragraph 1.4.1. Use the lateral scrollbar to display all the configured items.



> Double click the item to be added. The item's name is this way displayed in the "name" field (Fig 32).

Insert new item				
Name Label	COLLOIDS	<u> </u>		
	Fig 32			

Use the "Label" menu to further specify the item, if necessary. See Fig 33 for an instance.





After label specification (not mandatory),

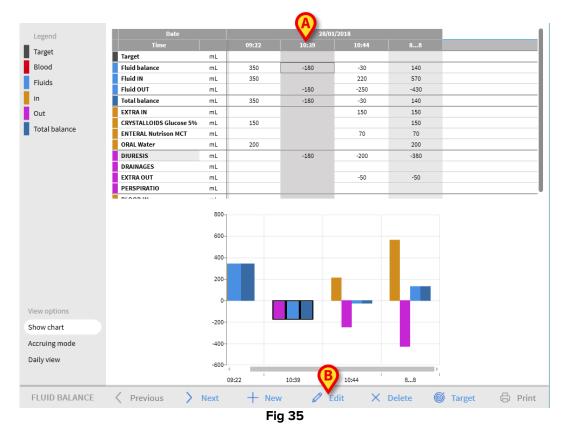
Click the + button to add the item to the items table (Fig 34 A).

Insert new	item			
Name	COLLOIDS	- 🔗		
Label	Haemaccel	~		
Fig 34				

## **1.8.3.** How to edit an existing balance

To edit an existing balance

Click the column corresponding to the balance to be edited. The column is highlighted (Fig 35 A).



> Click the **Edit** button on the command bar (Fig 35 **B**).

The data entry window opens, containing the values of the selected balance/column (Fig 36).

id balance data entry						
Date	28,	/01/2018				
Time		10:39	Ŀ			
Patient weight (g)						
🕁 Input						
EXTRA IN	mL			_		
BLOOD IN	mL			7	8	9
				4	5	6
🕽 Output				1	2	3
DIURESIS	mL	180				
DRAINAGES	mL			с	0	
EXTRA OUT	mL					
PERSPIRATIO	mL					
lotes						
A						B
+ Add new item			×	Cancel	~	Save



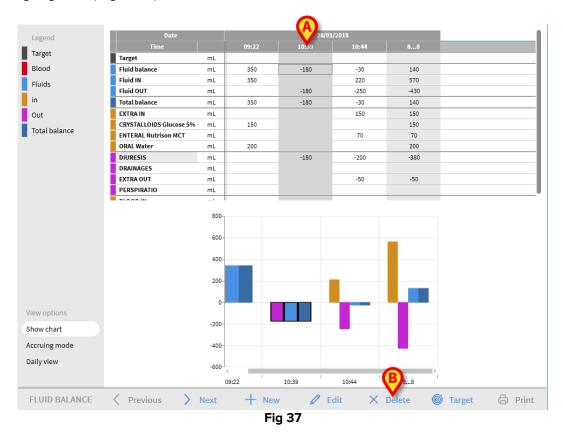
It is now possible to

- Edit the values of the already inserted items
- Add new items using the "Add new item" functionality (Fig 36 **A**) described in paragraph 1.8.2.
- Click Save to save the changes made (Fig 36 B).

## 1.8.4. How to delete an existing balance

To delete an existing balance

Click the column relating to the balance to be deleted. The column is this way highlighted (Fig 37 A).



> Click the **Delete** button on the command bar (Fig 37 **B**).

User confirmation is required.

Click **Yes** to delete the balance/column.

## 1.9. "Accruing" fluid balance

The **Accruing** option (Fig 38) makes it possible to change the balance table display mode to "Accruing mode".



This button displays the total values in every column in an "Accruing" mode.

The following example shows the difference between the two display modes (Fig 39 and Fig 40):

- 1	Date					
- 1	Time		13:36	13:36	13:37	88
	Target	mL				
	Fluid balance	mL	-100	-100	-100	-300
	Fluid OUT	mL	-100	-100	-100	-300
	Total balance	mL	-100	-100	-100	-300
	EXTRA IN	mL				
	DIURESIS	mL	-100	-100	-100	-300
	DRAINAGES	mL				
	EXTRA OUT	mL				
	PERSPIRATIO	mL				
	BLOOD IN	mL				

Fig 39 - Normal mode

Date	Date		28/01/2018			
Time		13:36	13:36	13:37	88	
Target	mL	>	>	>		
Fluid balance	mL	-100	-200	-300	-300	
Fluid OUT	mL	-100	-200	-300	-300	
Total balance	mL	-100	-200	-300	-300	
EXTRA IN	mL	· · ·	,			
DIURESIS	mL	-100	-200	-300	-300	
DRAINAGES	ml		>			
EXTRA OUT	mL	>	>	>		
PERSPIRATIO	mL	>	>	>		
BLOOD IN	mL	>	>	>		

Fig 40 - Accruing mode

The two tables shown in Fig 39 and Fig 40 refer to the same balance. The first one is displayed in "Normal" mode, the second one is displayed in "Accruing" mode.

The table refers to three subsequent data entries. The first one at 13.36 (100 ml Diuresis); the second one at 11:36 (100 ml Diuresis); the third one at 13:37 (100 ml Diuresis).

Notice, on the tables, the values referring to the Diuresis item (red circled in the figure).

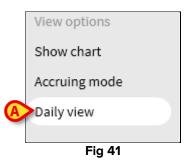
In Fig 39 (Normal mode), the second column displays the value 100, the third column displays the value 100.

In Fig 40 (Accruing mode), the second column displays the value 200 (100+100), the third column displays the value 300 (100+100+100).

Total values are displayed in the fourth column. They are the same in both figures (300 MI Out is the total balance value for the Diuresis item).

## 1.10. "Daily" Fluid Balance

The "Daily view" option (Fig 41 **A**) makes it possible to change the fluid balance table display mode.



This are displayed only the "grey" columns, those displaying the daily totals. See for instance Fig 42.

Date		26/01/2018	27/01/2018	28/01/2018	
Time		88	88	88	
Target	mL			300	
Fluid balance	mL	250	130	0	
Fluid IN	mL	350	450	0	
Fluid OUT	mL	-100	-320	0	
Blood IN	mL	0	0	150	
Blood balance	mL	0	0	150	
Total balance	mL	250	130	150	
EXTRA IN	mL	0	200	0	
CRYSTALLOIDS Glucose 5%	mL	200	0	0	
ORAL Liquid Diet	mL	0	250	0	
ORAL Water	mL	150	0	0	
BLOOD IN	mL	0	0	150	
DIURESIS	mL				
DRAINAGES	mL	0	-220	0	
EXTRA OUT	mL	-100	0	0	
PERSPIRATIO	mL				
FECES	mL	0	-100	0	
Fig 42					



It is possible to display the values in "Daily" and "Accruing" mode at the same time. This kind of display mode increases the possibility for the user to enter values which are not exact. It is therefore necessary to pay particular attention to the exactness of data when using this display mode.

## 1.11. Value/grams display mode

The Value/grams display mode, when enabled by configuration, makes it possible to display the values as amount per gram. In order to activate this mode, the current patient weight must be specified when fluid balance values are entered, on the data entry window. See paragraph 1.8.

## 1.12. Target

The Target button on the command bar (Fig 43) can be used to specify the balance daily target.



The daily target can be specified both for the current day and for the next day. To specify the daily target

Click the **Target** button. The following window opens (Fig 44).

luid balance target				
Previous days				
28/01/2018				
Current target		Notes		
	mL			
29/01/2018				
Next target		Notes		
	mL			
X Car	ncel	✓ Save		
Fig 4	Fig 44 - Fluid balance target			

> Type the target value in the "Current target" field (Fig 45 A).

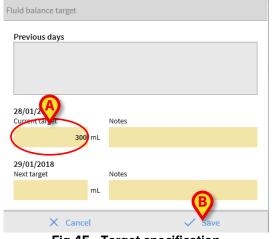


Fig 45 - Target specification

Click the Save button (Fig 45 B). The fluid balance target is this way displayed in the table (Fig 46 A).

Date	Date		28/01/2018			
Time		13:36	13:36	13:37	8 <mark>(A)</mark>	
Target	mL				300	
Eluid balance	mL	-100	-100	-100	-300	

Fig 46 - The target is displayed on the table

## **1.12.1.** "Fluid balance target" window description

Fluid balance ta	Fluid balance target				
Previous days					
A					
28/01/2018 Current target		Notes			
B	300 mL				
29/01/2018 Next target		Notes			
C	mL	Ø			
×	Cancel	🗸 Save			
<b>Fig. 47</b>	"The	halanaa taxaatiiinda			

The "Fluid balance target" window provides the following information.

Fig 47 - "Fluid balance target" window

The "Previous days" field (Fig 47 A) displays a list of all the targets specified since. The display format is "Date / Target value / Acronym of the user who specified the value".

The "Current target" area (Fig 47 B) makes it possible to specify the target for the current day. Use the "Note" field to insert a textual note.

The "Next target" area (Fig 47 C) makes it possible to specify the target for the next day. Use the "Note" field to insert a textual note.

Both areas display the date to which the specified target refers.

The Save button (Fig 47 D) records the specified target and inserts it into the fluid balance table.

## 1.13. Print reports

The **Print** button on the command bar makes it possible to create a print report containing the patient's fluid balances data (Fig 48). Different print reports can be configured according to the healthcare structure needs.



To create a print report

Click the Print button. A menu listing the available print reports is displayed. Click the button corresponding to the wanted template. A print preview is displayed.

## **1.14. Annex – Examples of user workflows**

## **1.14.1. Add a new balance to the balance table**

To add a new balance

1. Click the **New** button on the command bar (A).

Target         Time         09:22         10:39         83           Blood         Target         mL         -         -           Fluid balance         mL         350         -180         170           Fluid balance         mL         -         -180         -180           In         Total balance         mL         -         -           Out         EXTRA IN         mL         -         -           CRYSTALLOIDS Glucose 5%         mL         150         150           OdaL Water         mL         -         -         -           DVEX ROUT         mL         -         -         -           DRAINAGES         mL         -         -         -           DVEX options         -         -         -         -           Show chart         -         -         -         -         -           Daily view         -         -         -         -         -         -	Legend	Date		28/01/2018		
Blood         Images         Images <thimages< th="">         Images         <thimages< th=""> <thimages< th=""> <thimages< th=""></thimages<></thimages<></thimages<></thimages<>	Tin		09:22			
Fluid N         mL         350         350           in         1000 tablance         mL         -180         -180           Out         EXTRA IN         mL         10         100           Total balance         ORAL Water         mL         200         200           DURESIS         mL         -180         -180           DRAINACES         mL         -180         -180           DRAINACES         mL         -180         -180           PERSPIRATIO         mL         -         -           Non IV         mL         -         -           View options	Target	mL				
Fluidout nL 180 -180 in Total balance nL 350 -180 170 Out CRYSTALLOUS Glucose 5% mL 150 150 ORAL Water nL 200 200 DRAINAGES mL -180 PENERSIS mL -180 DRAINAGES mL -180 PENERSIS mL -180	Blood Fluid balance	mL	350	-180	170	
Fluid OUT         mL         -180         -180           Out         EXTRA IN         mL	Fluids	mL	350		350	
Out Total balance  CRYTALIN M  CRYSTALLIOBS Glucose 5% mL  150  150  ORAL Water  mL  200  200  DRINIAGES  mL  CRYTANN  R  PERSPIRATIO  mL  PERSPIRATIO  mL  R  CRYTAL  ACCURATE  ACCURATE ACCURATE  ACCURATE AC	Fluid OUT	mL		-180	-180	
Total balance Total balance CEPSTALLOIDS Glucose 5% mL 150 150 ORAL Water mL 200 200 DRAINAGES mL -180 PETRA OUT mL PETRA OUT mL IN ron IN m1 PETRA OUT mL PETRA	in Total balance	mL	350	-180	170	
Total balance ORAL Water mL 200 200 DURESIS mL -180 DURESIS mL PERSPIRATIO mL PERSPIRATIO mL PERSPIRATIO mL PERSPIRATIO mL PERSPIRATIO						
Aev options show chart kccruing mode paily view 300 200 200 200 200 200 200 200	Total balance					
tew options how chart ccruing mode pally view	ORAL Water	mL	200			
Tew options show chart tccruing mode pally view				-180	-180	
Rew options show chart scoruing mode paily view						
New options show chart ccruing mode Daily view						
View options Show chart Accruing mode Daily view						
Show chart -100- Accruing mode -200- Daily view -300	Wew options	100-		_	Ļ.	
Daily view		-100-				
-300 4		-200-			-	
09:22 10:39 88	Daily view	-300	09:22	10:39		

The data entry window opens.

Date	2	8/01/2018				
Time		10:43	Ŀ			
) Input						
EXTRA IN	mL					
CRYSTALLOIDS Glucose 5%	mL			7	8	9
ENTERAL Nutrison MCT ORAL	mL			4	5	6
Water Output	mL				5	0
DIURESIS	mL			1	2	3
DRAINAGES	mL					
EXTRA OUT	mL			С	0	·
PERSPIRATIO	mL					
tes						

2. Insert the balance values using either the workstation keyboard or the virtual keyboard on the right.

See the following figure for an example (**B**).

Date	28,	/01/2018 📰			
Time		100			
) Input					
EXTRA IN	mL	150			
CRYSTALLOIDS Glucose 5%	mL		7	8	9
ENTERAL Nutrison MCT ORAL	mL	70	4	5	6
Water ) Output	mL			5	0
DIURESIS	mL	200	1	2	3
DRAINAGES	mL				
EXTRA OUT	mL	50	С	0	·
PERSPIRATIO	mL				
tes					
					$(\mathbf{C})$

3. Click the Save button (**C**).

A column is this way added to the balance table (**D**).

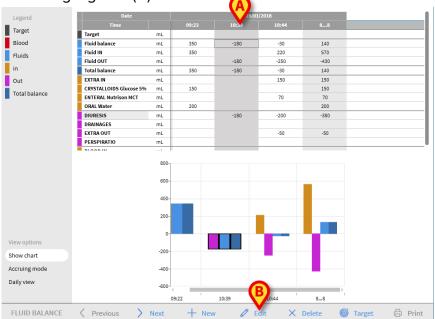
2-1-	_		20/04		
Date	28/01/2018				
Time		09:22	10:39	10:44	88
Target	mL				
Fluid balance	mL	350	-180	-30	140
Fluid IN	mL	350		220	570
Fluid OUT	mL		-180	-250	-430
Total balance	mL	350	-180	-30	140
EXTRA IN	mL			150	150
CRYSTALLOIDS Glucose 5%	mL	150			150
ENTERAL Nutrison MCT	mL			70	70
ORAL Water	mL	200			200
DIURESIS	mL		-180	-200	-380
DRAINAGES	mL				
EXTRA OUT	mL			-50	-50
PERSPIRATIO	mL				

Total and partial balance calculations are automatically performed.

## 1.14.2. Edit an existing balance

To edit an existing balance

1. Click the column corresponding to the balance to be edited. The column is highlighted (A).



2. Click the **Edit** button on the command bar (**B**).

The data entry window opens, containing the values of the selected balance.

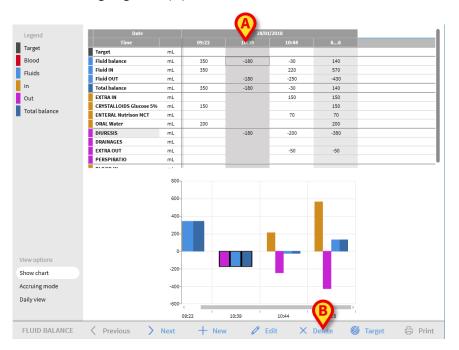
Date		104 1004 -	E I			
	28,	/01/2018				
Time		10:39	<b>(</b>			
Patient weight (g)						
Input		C				
EXTRA IN	mL			_		
BLOOD IN	mL			7	8	9
				4	5	6
Output				1	2	3
DIURESIS	mL	180		-	-	-
DRAINAGES	mL			С	0	
EXTRA OUT	mL					
PERSPIRATIO	mL					
otes						
						ത

- 3. Edit the existing values of the already inserted items (C).
- 4. Click **Save** to save the changes made (**D**).

## 1.14.3. Delete an existing balance

To delete an existing balance

1. Click the column relating to the balance to be deleted. The column is this way highlighted (**A**).



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

User confirmation is required.

3. Click **Yes** to delete the balance. The column disappears from the table.

## 1.14.4. Add a balance item

It is possible to add items to those listed in the "Fluid Balance items" table.

Fluid balance data entry					
Date	28/01/2018				
Time	10:06	Ŀ			
( Input					
EXTRA IN	mL				
CRYSTALLOIDS Glucose 5%	mL		7	8	9
ORAL Liquid Diet	mL			_	_
ORAL Water	mL		4	5	6
(↓) Output					
DIURESIS	mL		1	2	3
DRAINAGES	mL		C	0	
EXTRA OUT	mL		L L	0	•
PERSPIRATIO	mL				
Notes					
$\mathbf{\Theta}$					
+ Add new item		×	Cancel	✓ 5	Save

To do that:

1. Click Add New Item on the data entry window (A).

The following window is displayed

Insert new it	em	
Name		Ŷ
Label		+

2. Click the arrow indicated in **B**.

A menu containing all the configured items opens. Use the scrollbar on the right (**C**) to display all the items.

COLLOIDS	
CRYSTALLOIDS	(C)
ENTERAL	
ORAL	
OTHER EV	
PAR NUTRITION	
FFP	

3. Double click the item to be added.

The item's name is this way displayed in the "name" field (D).

Insert new i	tem D	
Name		
Label		

4. Use the "Label" menu to further specify the item, if required (E).

Insert new	/ item	
Name Label + Add	COLLOIDS	- + ×
	Volplex	

5. Double click the label name to select it (F).

The selected label is displayed in the "Label" field.

6. Click the + button (G) to add the item to the items table.

Insert new it	tem	0
Name	COLLOIDS	<b>V</b>
Label	Haemaccel	