



On Line Mobile User Manual

Version 5.0

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Contents

On Line Mobile.....	3
1. Introduction	3
2. Data display.....	3
3. Data acquisition	3
4. On Line Mobile start-up.....	4
5. Patients List Page.....	5
6. Pages List Screen	6
7. Online Pages.....	7
7.1. Charts	7
7.1.1. Chart description	8
7.1.2. The Bottom Navigation Bar	10
7.2. Microbiology.....	11
7.2.1. Heading.....	11
7.2.2. Filters.....	12
7.2.3. Data Grid.....	12
7.3. Laboratory	14
7.3.1. Laboratory - Data grid.....	14

On Line Mobile



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



The features and functionalities of the On Line Mobile module are fully available after user log in. A popup message informs the user accessing the application if log in is required.

1. Introduction

On Line Mobile is an application that displays the incoming data from the medical devices connected to the patient (for example: monitor, ventilator, laboratory etc.). The raw collected data can be integrated and validated by the user to create an accurate and readable user documentation.

The application can also be configured to connect to other Digistat® modules and display their data (for example Digistat® Diary, Digistat® Connect).

2. Data display

Data can be viewed in charts. The way data is displayed is widely customizable. Refer to the system administrators for customization options. The figures included in this manual show a configuration example.

3. Data acquisition

Data can be either automatically acquired or manually entered by users.

Automatic acquisition is for parameters transmitted by interfaceable medical equipment (for example: ventilators, patient monitors), or by a laboratory (for example: exams results).

Manual editing enables users to check and validate data, to eliminate artifacts and redundant data, to insert values whenever, for any reason, automatic acquisition is unavailable.

4. On Line Mobile start-up

To launch the On Line Mobile module:

- Touch the corresponding row on the handheld device screen (Fig 1).

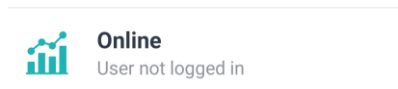


Fig 1

The On Line Mobile Patient List page opens (Fig 2):

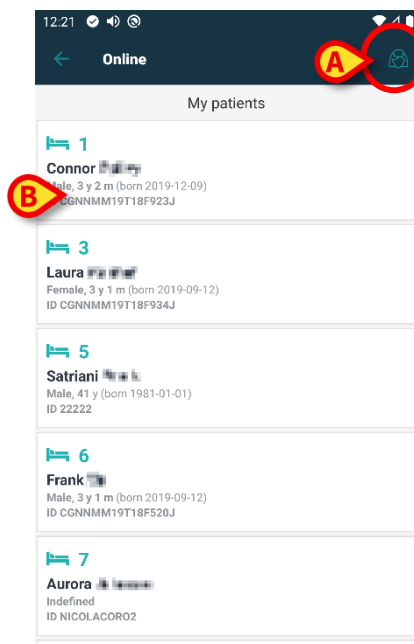


Fig 2

On Line Mobile requires patient selection. If no patient is currently selected, an empty screen is displayed, reminding that “This module requires a patient”. See section 5.

5. Patients List Page

The On Line Mobile Patients List page (Fig 2) displays the list of patients included in the “MyPatients” list. Read the document *USR ENG Mobile Launcher* for more information about the “MyPatients” list.

- Touch the “MyPatients” button (Fig 2 **A**) to manage the “MyPatients” list.

Each patient is represented by a tile (Fig 3).

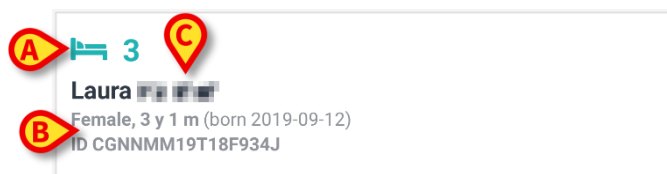


Fig 3

In the tile, the following information is displayed (customizable):

- Bed number (if available - Fig 3 **A**);
 - Patient data (sex, age, date of birth, patient ID - Fig 3 **B**);
 - Name of patient on that bed (Fig 3 **C**).
- Touch the patient tile (e.g. Fig 2 **B**) to access the Pages List Screen and manage the related On Line Pages. See section 6.

6. Pages List Screen

The Pages List Screen lists all the On Line Mobile Pages, each one displaying, in charts, the data available for the selected patient.

Different On Line Mobile Pages can be configured for the same patient, each one focusing on a subset of parameters. Different icons can be associated during configuration to symbolize the kind of data contained in the page.



The icons referring to the pages, placed on the left of the page name, can be associated on the On Line Web configuration tool. Refer to the document CFG ENG Online Validation for the existing configuration options.

The Pages List Screen is formed of two areas: a heading area displaying the patient main data (Fig 4 **A**) and the list of On Line Pages configured for the patient (Fig 4 **B**).

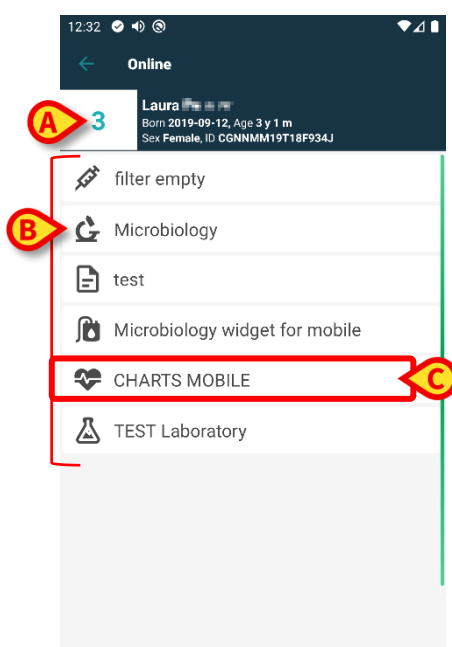


Fig 4

The heading area (Fig 4 **A**) contains the same information displayed in the patient tile on the Patient List screen (described in section 5).

- Touch the row corresponding to the required On Line Page (e.g. Fig 4 **C**) to access it (Fig 5). Read section 7.

7. Online Pages

There are three possible page types:



- 1 - "chart" show data from the configured patient devices.
- 2 - "microbiology" show the microbiology exam history.
- 3 - "laboratory", show laboratory exam results.

7.1. Charts

A "Chart" page (Fig 5) displays in charts the data available for the selected patient.



Fig 5

- Bed number and patient name are displayed on top (Fig 5 **A**).
- The Charts are displayed in the page body (Fig 5 **B**). Charts are described in section 7.1.1.
- A Bottom Navigation Bar (Fig 5 **C**) allows to navigate the charts back and forth in time. The Navigation Bar is described in section 7.1.2.
- the  icon indicated in Fig 5 **D** makes it possible to share the available data. To do that:
 - Tap the  icon. The following window opens (Fig 6):

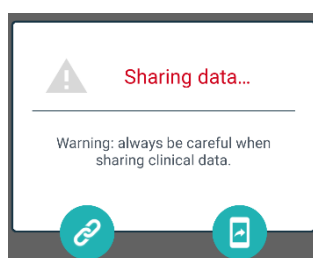




Fig 6

The  button copies the Digistat Mobile link to the current page to the clipboard and allows to share it through the apps available on the handheld device.

The  button allows to share the current page screenshot.



The "Share" functionality can be enabled depending on the local configuration. Refer to the system administrators for the available configuration options.

- Tap the **Back** button (Fig 5 **E**) to return to the Pages List Screen (Fig 4).

A message informs the user if no Charts are configured for the selected patient.

A message informs the user when the time switches from standard time to daylight saving time and vice versa.

7.1.1. Chart description

The trends of the configured parameters are displayed in Charts (Fig 7).

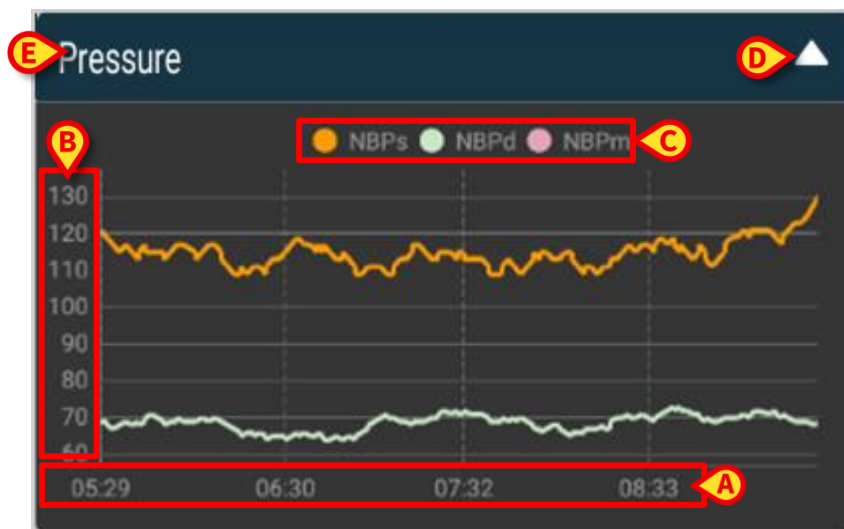


Fig 7

The Chart name is on top (Fig 7 **E**).

The horizontal axis (Fig 7 **A**) represents time.

The vertical axes (Fig 7 **B**) indicate the value of the represented parameters. Two scales of values can be used: one on the left; one on the right.

The names of the represented parameters are displayed above the chart (Fig 7 **C**). The colour of the font corresponds to the color used in the chart to draw the trend of the parameter.

- Tap the Chart to dynamically display the values corresponding to the indicated position. A pop-up window opens (Fig 8).

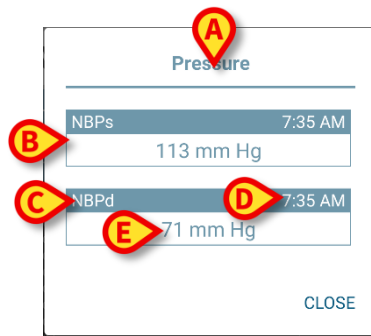


Fig 8

The title of the pop-up window (Fig 8 **A**) is the same of the Chart.

For each parameter a box is displayed (Fig 8 **B**), reporting the parameter name (Fig 8 **C**), the timestamp of the measure (Fig 8 **D**), the parameter value (Fig 8 **E**). The unit of measure of each parameter is displayed beside the parameter value.

- Touch the **Close** button to close the pop-up.
- Touch the Chart and drag it left or right to draw a vertical cursor-bar (Fig 9 **A**).

The values acquired at the same time are highlighted in the other Charts on the page. A notification window on the bottom (Fig 9 **B**) displays the values corresponding to the selected time-

- Touch the **Close** button (Fig 9 **C**) to close the notification window.
- Touch the **Info** button (Fig 9 **D**) to open the pop-up window detailing the parameters information (Fig 8).



Fig 9

- Touch the up-arrow button (Fig 7 **D**) to collapse the Chart.



Refer to the document CFG ENG On Line Validation to customize font and colors of the Charts in the On Line Mobile module.

Alternative theme

During configuration, a different theme (white background) can be chosen for the On Line Mobile charts. See Fig 10 for an example. Refer to the system administrators for this option.

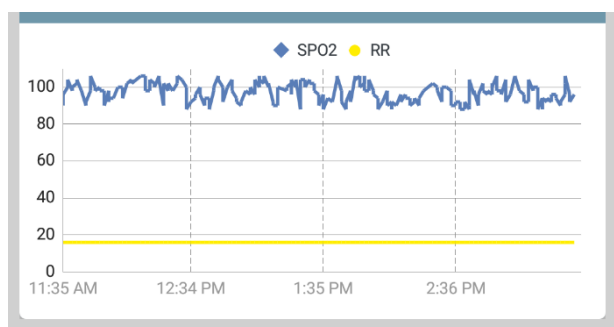


Fig 10

7.1.2. The Bottom Navigation Bar

The On Line Mobile Navigation Bar (Fig 11) contains tools making it possible to navigate the Charts.

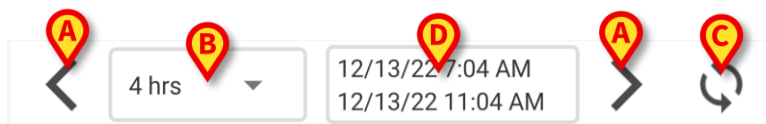


Fig 11

- Use the arrow buttons (Fig 11 **A**) to scroll the screen contents left and right.
- Select in the interval menu (Fig 11 **B**) the time span to be displayed. The interval menu is shown in Fig 12.

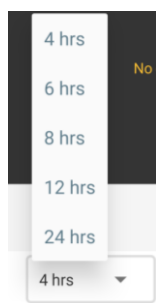


Fig 12

- Touch the **Reload now** button (Fig 11 **C**) to reload the screen contents.

The time range box (Fig 11 **D**) indicates the time range currently displayed on the chart.

7.2. Microbiology

The microbiology data is displayed in a dedicated type of page. Fig 13 shows an example.

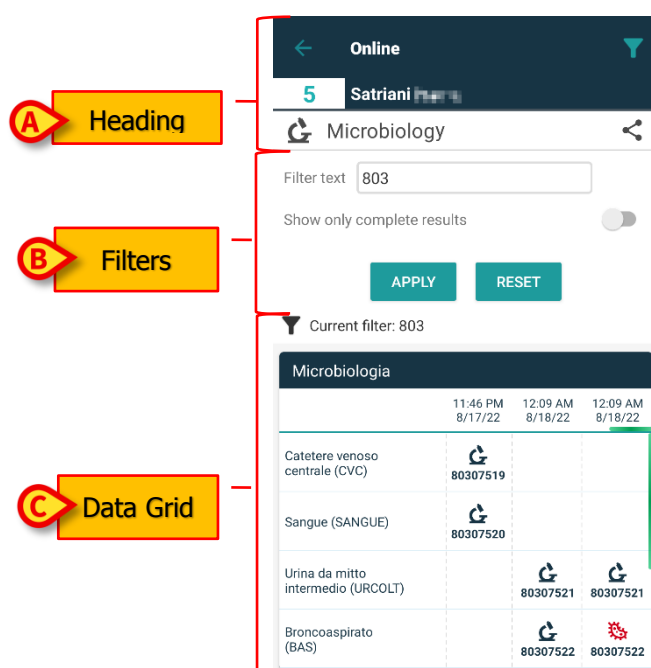



Fig 13

The page is divided into three areas:

- Heading, described in section 7.2.1.
- Filters, described in section 7.2.2. Use the  icon to display the filter area (Fig 14 D). Use the **Reset** button to hide it (Fig 16 D).
- Data grid, described in section 7.2.3.

7.2.1. Heading

Fig 14 shows the heading area.

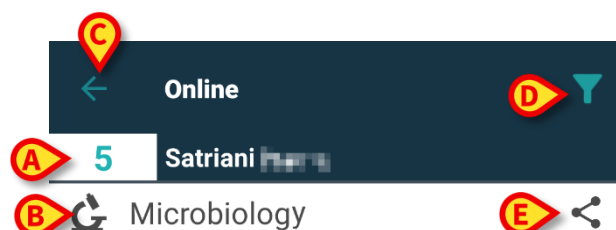



Fig 14

Bed number and patient name are displayed on top (Fig 14 A).

The name of the page is indicated in Fig 14 B.

The **Back** button (Fig 14 C) allows to go back to the Pages List Screen (Fig 4).

The  icon (Fig 14 D) makes it possible to display the filter area.

The  icon indicated in Fig 14 E makes it possible to share the available data.

To do that:

- Tap the  icon. The following window opens (Fig 15):

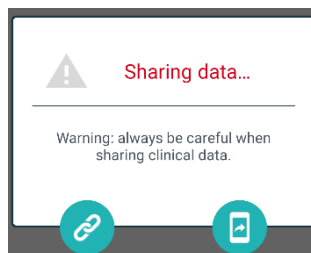




Fig 15

The  button copies the Digistat Mobile link to the current page to the clipboard and allows to share it through the apps available on the handheld device.

The  button allows to share the current page screenshot.



The "Share" functionality can be enabled depending on the local configuration. Refer to the system administrators for the available configuration options.

7.2.2. Filters

Use the  icon to display the filter area (Fig 14 **D**). Use the **Reset** button to hide it (Fig 16 **D**). Fig 16 shows the filters area.

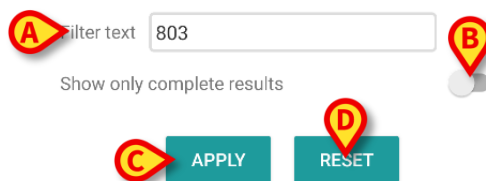


Fig 16

A text filter is available (Fig 16 **A**). Type here a search string to display only the items whose name contains the specified string ("803" in the figure).

Select the "Show only complete results" switch to display, in the grid, only the exams that were flagged as completed (Fig 16 **B**).




The data grid also displays results with partial data, referring to ongoing exams. Some exams take time to be completed: for these exams the results are progressively added when available. The "Show only complete results" switch allows to display, in the grid, only the exams that were completed.

Tap the **Apply** button to apply the filter to the data in the grid. Tap the **Reset** button to clear the filters and hide the filters area (Fig 16 **C - D**).

7.2.3. Data Grid

Fig 17 shows the data area.

 Current filter: 803









Microbiologia			
	11:46 PM 8/17/22	12:09 AM 8/18/22	12:09 AM 8/18/22
Catetere venoso centrale (CVC)	 80307519		
Sangue (SANGUE)	 80307520		
Urina da mitto intermedio (URCOLT)		 80307521	 80307521
Broncoaspirato (BAS)		 80307522	 80307522

Fig 17

The microbiology data is displayed in a grid. The columns indicate the date/time of the sample acquisition. The rows refer to the different types of exams. So, for example, the cell indicated in Fig 17 **A** refers to the available results for a Blood exam acquired at 11:46 PM on the 8/17/22.

If two different columns are indicated by the same date and time, it means that they refer to different updates of the same exam. The rightmost column contains the most recent update.

Use the "Show only complete results" switch on the filters area to display, in the grid, only the exams that were completed (Fig 16 **B**).

The  icon refers to results not indicating presence of germs. The  icon refers to results indicating presence of germs. The number placed below the icon is the specific exam id.

The "current filter" indication (Fig 17 **B**) tells that the results currently displayed are filtered (that means that only part of the available results is displayed).

- Tap an icon to open a window containing the detailed results (Fig 18).

Sangue da vena periferica - 9:00 PM
10/9/22 (id:49117402)

EMOCOLTURA Aerobi

Exam id 491174
Observation Date 9:00 PM

Results

Text EMOCOLTURA Aerobi-EMOCOLTURA Aerobi-EMO
Value Positivo
Status C
Abnormal N
Code 1@937@1@937@1@EMO@

Microrganismi Identificati

Exam id 491174
Observation Date 9:00 PM

Results

Text Microrganismi Identificati-Micro organism identified-EMO (1)
Value

Fig 18

7.3. Laboratory

The laboratory data is displayed in a dedicated type of page. Fig 19 shows an example.

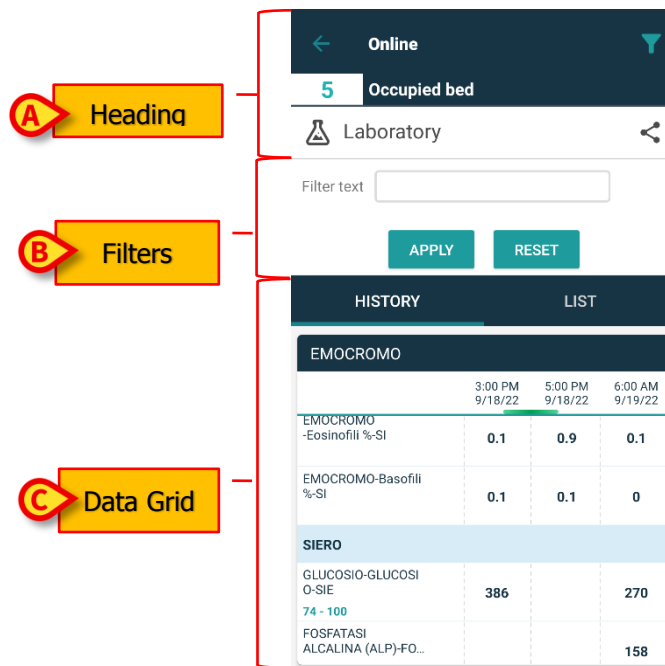



Fig 19

The page is divided into three areas:

- Heading, described in section 7.2.1.
- Filters, described in section 7.2.2. Use the  icon to display the filter area (Fig 14 D). Use the **Reset** button to hide it (Fig 16 D).
- Data grid, described in section 7.3.1.

7.3.1. Laboratory - Data grid

Two display modes are available for laboratory data (Fig 20 A - B):

- History (left), described in section 7.3.1.1.
- List (right), described in section 7.3.1.2.

“History” tab is displayed by default when entering in a Laboratory page type.

- Tap on History or List tab to switch to the related display mode.

A

HISTORY

LIST

EMOCROMO

6:00 AM
9/19/22

6:00 AM
9/19/22

6:00 AM
9/19/22

Sangue intero

EMOCROMO-Neutrofil
i-SI
2 - 8

8.37

10.24

15.07

EMOCROMO-Linfociti
-SI
1.5 - 4

1.75

0.8

0.76

EMOCROMO-Monocit
i-SI
0.1 - 1

1.28

1.04

1.14

EMOCROMO-Eosinofi
li-SI
0.1 - 0.5

0.01

0.25

0.24

EMOCROMO-Basofili-
SI
0 - 0.2

0

0.05

0.02

EMOCROMO-Mielocit
i-SI

?

N.V.

N.V.

N.V.

B

HISTORY

LIST

0

EMOCROMO

8/19/22 6:00 AM

PL.Citrato * T. Celeste*

PTT (TEMPO di TROMBOPLASTINA
PARZIALE)-Ratio-COG
0.8 - 1.2

0.91

?

FIBRINOGENO-FIBRINOGENO-COG
150 - 400

621

PT (TEMPO di PROTROMBINA)-Tempo di
protrombina-COG

14.9

PT (TEMPO di PROTROMBINA)-Tasso di
protrombina-COG
70 - 120

63

PT (TEMPO di
PROTROMBINA)-INR-COG

1.38

?

Sangue intero

EMOCROMO-Neutrofili-SI
2 - 8

23.97

EMOCROMO-Linfociti-SI

Fig 20

7.3.1.1. Data grid - History

Fig 21 shows the "History" mode.

HISTORY		LIST		
EMOCROMO				
	6:00 AM 9/19/22	6:00 AM 9/19/22	6:00 AM 9/19/22	
Sangue intero				
EMOCROMO-Neutrofi li-SI 2 - 8	8.37	10.24	15.07	
EMOCROMO-Linfociti -SI 1.5 - 4	1.75	0.8	0.76	
EMOCROMO-Monocit i-SI 0.1 - 1	1.28	1.04	1.14	
EMOCROMO-Eosinofi li-SI 0.1 - 0.5	0.01	0.25	0.24	
EMOCROMO-Basofili- SI 0 - 0.2	0	0.05	0.02	
EMOCROMO-Mielocit i-SI	N.V.	N.V.	N.V.	

Fig 21

The "History" mode provides an overview, chronologically ordered, of all the results available for the current selected patient in a configured time range.

Each column represents an exam. For example, the column indicated in Fig 21 **A** contains the results obtained at 6:00 AM on the 9/19/22.

Each row refers to an examination item. For example, the row indicated in Fig 21 **B** contains all the results obtained for "Emocromo-Linfociti" (Blood count - Lymphocytes). Below each examination item name, the value range is displayed if this information is available (Fig 21 **C**).

A cell is therefore the value of a certain item in the context of a specific exam, indicated by the results date and time. For example, the value 0.8 indicated in Fig 21 **D** is the value of "Blood count - lymphocytes" in the context of the results obtained at 6:00 AM on the 9/19/22.

The light-blue rows are group headings, naming a group of kindred items. For example: "Sangue intero" (Whole blood) indicated in Fig 21 **E**. All the white rows placed below a light-blue row belong to the same group, whose name is displayed on the light-blue row.



The composition of groups can be configured on the Online Web configuration tool. Refer to the system administrators for the available configuration options. See the document CFG ENG Online Validation for more information.

All the possible items are listed in the "History" view. If an item is not relevant for an exam, then, in the corresponding row, the cell related to that item is empty.

- Tap a cell to display more detailed information for a value (see example in Fig 22):

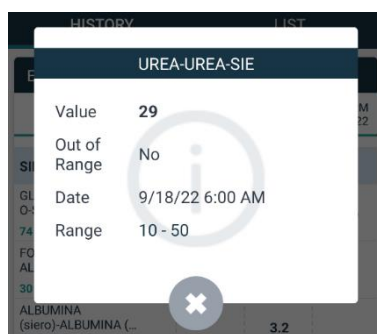


Fig 22

7.3.1.2. Data grid - List

Fig 23 shows the "List" mode.

HISTORY		LIST
EMOCROMO 8/19/22 6:00 AM		
PL.Citrato * T. Celeste*		
PTT (TEMPO di TROMBOPLASTINA PARZIALE)-Ratio-COG	0.91	
FIBRINOGENO-FIBRINOGENO-COG	621	
PT (TEMPO di PROTROMBINA)-Tempo di protrombina-COG	14.9	
PT (TEMPO di PROTROMBINA)-Tasso di protrombina-COG	63	
PT (TEMPO di PROTROMBINA)-INR-COG	1.38	?
Sangue intero		
EMOCROMO-Neutrofili-SI	23.97	
EMOCROMO-I. infociti-SI		

Fig 23

The "List" mode displays one exam at a time.

The name and time of the exam are displayed on top (Fig 23 **A**).

The rows in the table represent the examination items (Fig 23 **B**).

Below each examination item name, the value range is displayed if this information is available (Fig 23 **C**).

The light-blue rows are group headings, naming a group of kindred items. For example: "Sangre intero" (Whole blood) indicated in Fig 23 **D**. All the white rows placed below a light-blue row belong to the same group, whose name is displayed on the light-blue row.



The composition of groups can be configured on the Online Web configuration tool. Refer to the system administrators for the available configuration options. See the document CFG ENG Online Validation for more information.

The light-blue column contains the result values of the examination items (Fig 23 **E**). Each value refers to the item placed on the same row.

The column indicated in Fig 23 **F** contains, when available, the units of measure.

When the page is selected, the most recent result is displayed by default.

- Scroll the "List" mode page left and right to display previous and next exams.
- Tap a cell to display more detailed information for a value (see example in Fig 22):

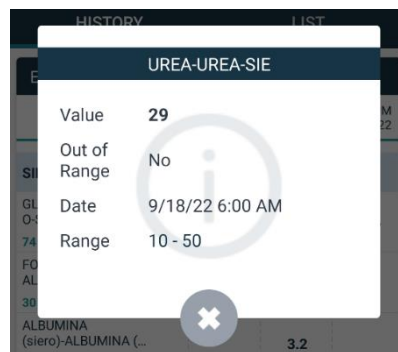


Fig 24