ascom

Mobile Launcher User Manual

Version 18.0

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Contents

1. Mobile Launcher

> ⚠️ *For information about the Product environment, precautions, warnings and intended use see USR ENG Digistat Care and/or USR ENG Digistat Docs (depending on the modules installed - for the Digistat Suite EU) or USR ENG Digistat Suite NA (for Digistat Suite NA). The knowledge and understanding of the appropriate document are mandatory for a correct and safe use of Mobile Launcher, described in this document.*

Mobile Launcher is the common environment shared among all the modules of Digistat Mobile. Digistat Mobile is an application designed to bring some of the Digistat Suite functionalities directly "in the hands" of nurses and clinicians.

Mobile Launcher acts as a container for the Digistat Mobile modules. Each module is designed to provide specific information and to present it to the staff concisely.

Mobile Launcher can run on Android and iOS. Some functionalities are not available for iOS. A specific warning "Not available for iOS" is present in this manual wherever this is true. Some of the screens and workflows may slightly differ in the two operating systems. When this is the case, the different screens and workflows are described in separate paragraphs.

1.1 Information for the user

Please carefully read the following warnings. Verificare i Warnings per iOS -

> ⚠️ In case of disconnection of the Mobile Launcher application a specific notification is generated, consisting of a characteristic and persisting sound and vibration. Sound duration is configurable. The sound is repeated until the connection is reestablished. Connection is automatically reestablished as soon as possible. Only relevant for Android

> ⚠️ The mobile device should always be kept by the user either in direct contact or close enough to be clearly audible. Only relevant for Android

> ⚠️ The Mobile Launcher application may display personal and/or confidential information. It is therefore recommended to not leave unattended the handheld device on which the Mobile Launcher application runs or, in case, to always logout before leaving it unattended.

> ⚠️ Mobile Launcher can be closed by the user. After that, the application will not send any other notification.

> ⚠️ Because of the Android architecture, in exceptional cases, which are hard to foresee, the operating system can close the Mobile Launcher application. After this event, the application will not send any other notification.

> ⚠️ The mobile device must support the vibration mode. Only relevant for Android

	Use the sound check procedure to verify if the audio on the workstation/handheld device is correctly working (see related paragraph for the procedure). Only relevant for Android

	Digistat Mobile for iOS does not generate notifications, including alarm notifications of Smart Central Mobile. Therefore, it cannot be used for timely responding to alarms nor for reducing response time to alarms.

1.2 Start-up

	At first run, the user is requested to provide some basic authorizations and therefore is automatically redirected to the Settings page. Read the related paragraphs in the Digistat Suite configuration and Installation manual. Note: the first run must be performed by technical, authorized and trained personnel.

To open the Mobile launcher:

➢ Touch the icon.

The following screen is displayed (Android Fig 1 a – iOS Fig 1 b).
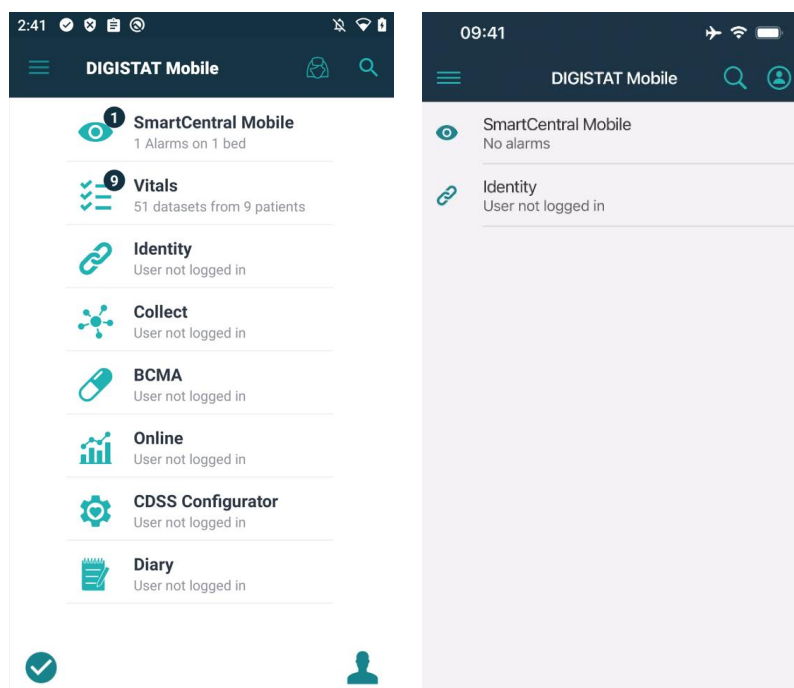

Fig 1 a/b

The available modules are listed on the page. Touch one of the rows to open the corresponding module.

	The type and number of available modules changes according to the configuration chosen by the specific healthcare structure.

	If a module fails to load server-side, the module does not open. A "Wrong configuration" error message is then displayed. In these cases, contact the system administrators.

	If the license for a module is not available, the module does not open. In this case a "License not available" indication is displayed below the module's name and a "Refresh" button is displayed on the left. Tap the button to try to load the module again (a license becomes available if another device is disconnected). See Fig 2 for an example. The refresh button is not available on iOS.

Identity
License not available

Fig 2

1.2.1 Monitoring of application execution

If operating on Android, after the Mobile Launcher application is started, it is monitored to be always running. If it stops, it is restarted. This restart is immediate and automatic with the exceptions of:

- Stop caused by configuration procedure. In this case, the service automatically restarts when the configuration procedure is completed. See the Digistat Suite configuration manual for more information;

- Manual stopping. In this case the service must be manually restarted. See the Digistat Suite configuration manual for more information.

If operating on iOS, when the application goes to background, it disconnects. It automatically reconnects when reopened in foreground. In this case, if the "Remember me" switch was not set to "on" at previous login, it is necessary to perform again the login procedure (See section 1.3.2). On iOS also, in case of manual stopping or changes in configuration, Mobile Launcher is disconnected and then automatically reconnected.

1.3 Login

User login is required to access most Digistat Mobile modules.

1.3.1 Login on Android

To login to Mobile Launcher on an Android device:

➢ Touch the **Login** icon on the bottom-right corner of the module list page (Fig 3 **A**).
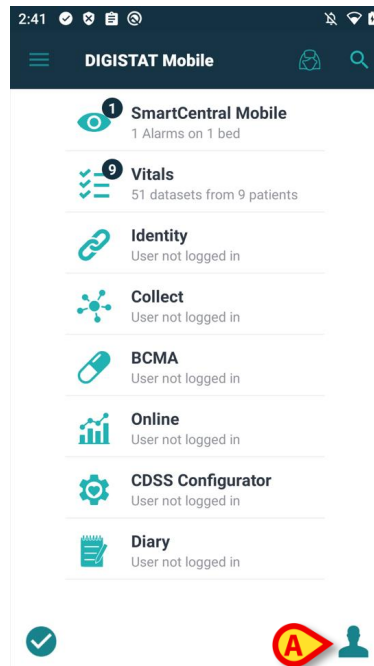
Fig 3

The following screen will be displayed (Fig 4):

Fig 4

➢ Insert username and password (Fig 4 **A**).

➢ Touch the **Login** button (Fig 4 **B**).

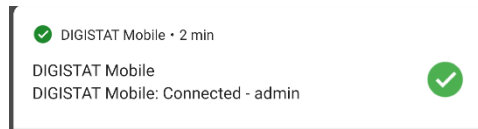A notification is then displayed, indicating the name of the logged user (Fig 5).

Fig 5

When a user is logged, the "Login" icon changes as shown in Fig 6 **A**. Touch it again to log out.
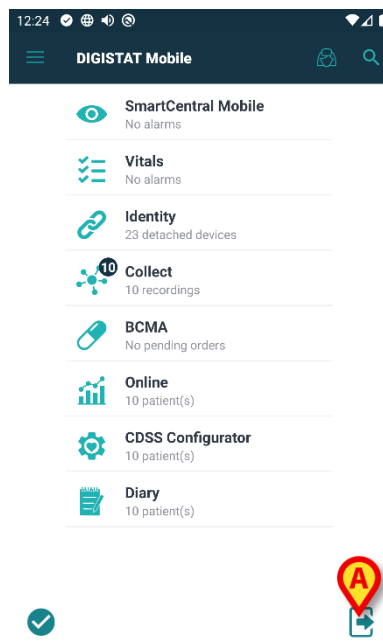

Fig 6

> *It is possible to configure the Product to allow login through an external system (single sign on). In these cases, a dedicated button is displayed on the Login screen.*

1.3.2 Login on iOS

To login to Mobile Launcher on iOS

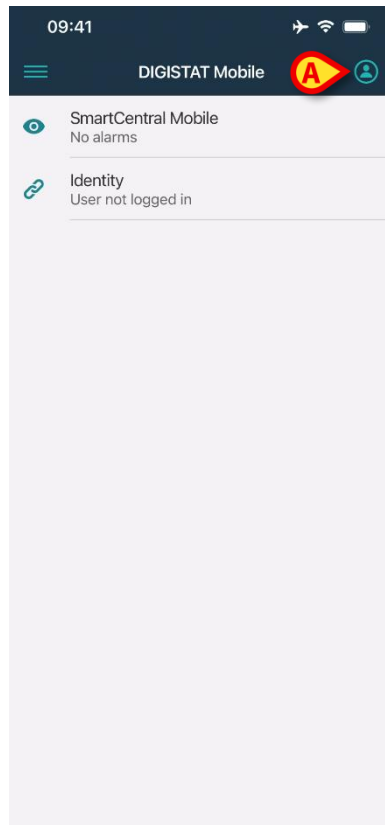➢ Touch the **Login** icon on the upper-right corner of the module-list page (Fig 7 **A**).
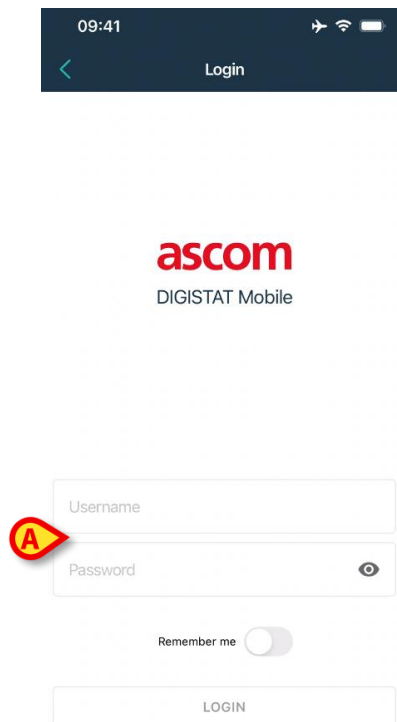
Fig 7

The following screen will be displayed (Fig 8):

Fig 8

➢ Insert username and password (Fig 8 **A**).
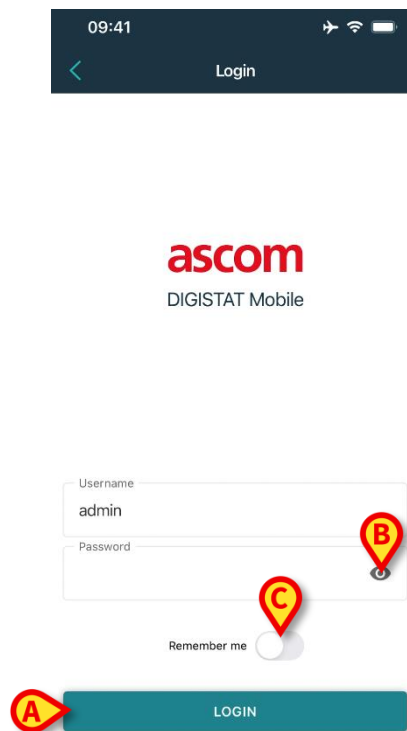
The Login button is this way enabled (Fig 9).

Fig 9

➢ Touch the **Login** button (Fig 9 **A**).

The user is this way logged in. When a user is logged, the "Login" icon changes as shown in Fig 10 **A**. Touch it again to log out.

Fig 10

The "eye" icon (Fig 9 **B**) enables the possibility to show the password while typing it.
The "Remember me" switch (Fig 9 **C**) keeps the last used credentials for the next login.

1.3.3 Login with PIN code

The present procedure can be performed only if the login procedure is managed by Mobile Launcher i.e. NOT with Myco Launcher.

Not available on iOS.

The "Login with PIN code" is a login procedure quicker than the usual one. The system administrator provides the user with:

- a NFC tag, whose scheme triggers the procedure;
- a PIN code i.e. a numeric code generated when the user account is created.

To Login via PIN code:

➢ Put the NFC tag close to the NFC receiver that is usually on the back of the mobile device.

A window making it possible to insert the PIN code in the place of the password is shown.

➢ Touch the "PIN" text field.

The numeric keyboard allowing the PIN code insertion is displayed:

➢ Insert the PIN code and touch the **LOGIN** button.

Specific messages alert the user if:
- The procedure is attempted when the mobile application is not running;
- The user is already logged in.

1.3.4 Ascom Myco Launcher

The Ascom Myco Launcher is one possible user interface for the Myco 1 and 2 handset and provides functionality to access central functions as alert handling, messaging, and launching apps. The Ascom Myco Launcher can replace the standard Android launcher, while still providing access to Android functionality.

The Ascom Myco Launcher is only available on Myco 1 and Myco 2 devices when integrated with Unite. Digistat Mobile version 5.1.3 or newer is required.

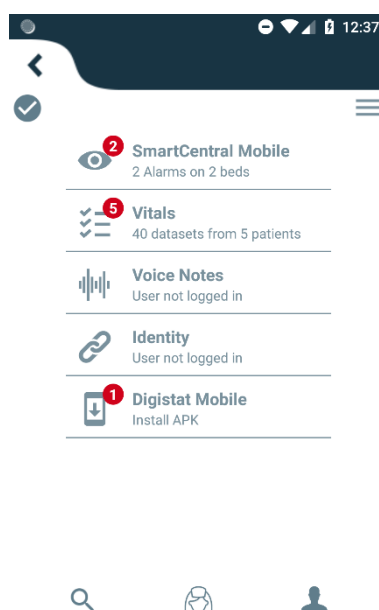The Mobile Launcher can run on the rightmost page of the Myco Launcher.

Fig 11

In this case the screen layout is slightly different from the one described in this manual. The procedures are the same.

1.3.5 Login with BadgePIN code

⚠️ The present procedure can be performed only if the login procedure is managed by Mobile Launcher i.e. NOT with Myco Launcher.

ℹ️ Not available on iOS.

The "Login with BadgePIN code" procedure is very similar to the "Login with PIN code": the user login is the same as explained in the paragraph 1.3.3.

The login shall be granted once the following information are set for the user going to Configurator Web > System Administration > User Account page and Account tab:
- **BadgeID**. The ID stored in the NFC-equipped badge provided to the user;
- **BadgePIN**. A numeric code of at least 5 digits.

The only difference is that the user, with the specific permission from the Healthcare Organization, can set by himself the couple BadgeID/BadgePIN. For more information refer to the *Digistat Suite Configuration Manual*.

If the user has set BadgeID/BadgePIN by himself, they must perform the following actions during the first login attempt:

➢ Login via username/password, as explained in paragraph 1.3.

The following screen is shown, allowing the user to define their BadgeID via NFC tag scan:

Associate NFC badge
To associate your badge, please put
it close to your device.

CANCEL

➢ Put the mobile device close to the user badge to scan the NFC tag.

If the NFC tag of the user badge is successfully scanned, the following screen will be shown, allowing the user to define the BadgePIN:

Confirm association

Badge found: please enter a PIN
number of your choice (minimum 5
digits) and confirm the association.

CANCEL   OK

➢ Set the BadgePIN as required, 5 digits minimum.

> The procedure can be customized to suggest the user a random BadgePIN (still customizable, see the *Digistat Suite Configuration Manual* for further information). The above screen is then replaced with the next one:

Confirm association

Badge found: pin has been
automatically generated. Pin is
required for login with Badge.

46163

CANCEL   OK

> ➢ Touch the ↻ symbol to generate a new random BadgePIN or touch the BadgePIN to edit it.

➢ Touch the **OK** button to confirm.

In the "Login with BadgePIN code" the user is also allowed to replace a BadgeID / BadgePIN couple: just as example, in case of loss of the physical badge. In this case the user shall do the following actions:

➢ Login via username / password, as explained in paragraph 1.3.
The main page of Mobile Launcher will be shown.

➢ Touch the ☰ icon allowing to open the lateral menu (see paragraph 1.4).
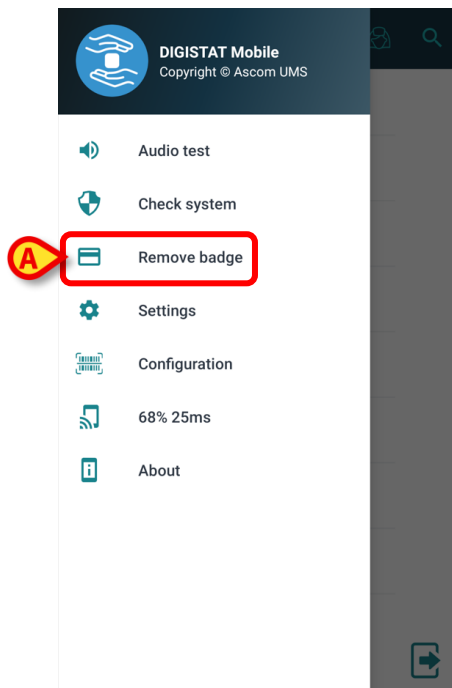The following screen will be shown.

Fig 12

> Touch the **Remove badge** button (Fig 12 **A**) to reset both the BadgeID and the BadgePIN.

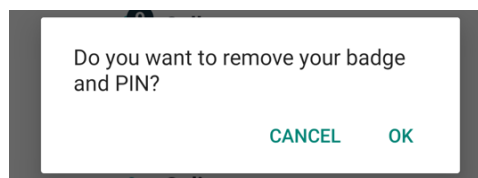User confirmation is required:

Fig 13

> Touch **OK** to confirm.

A toast notification warns the user about the successful reset of BadgeID / BadgePIN credentials.

> Repeat the steps explained above to associate a new BadgeID / BadgePIN couple.

1.4 Lateral Menu

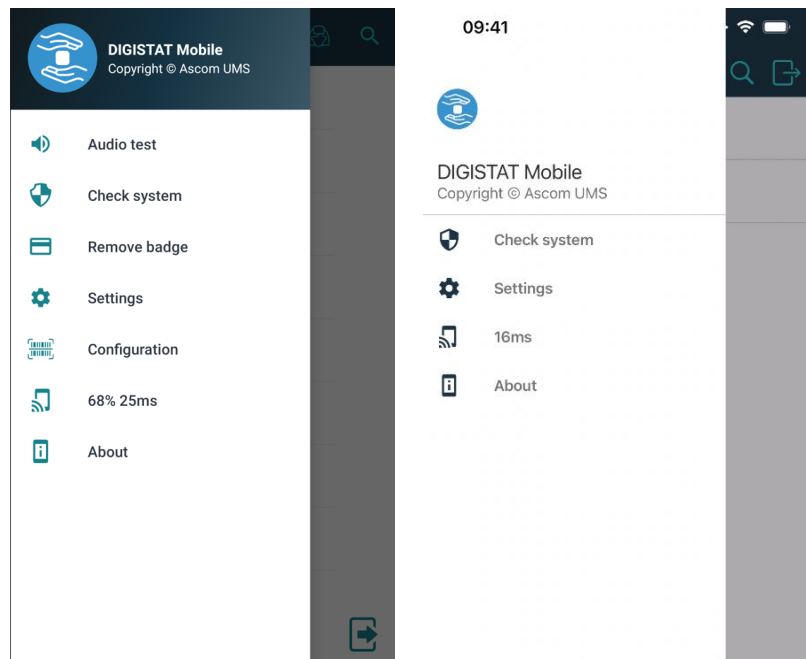The ☰ icon on the home page opens a menu containing different options (Android Fig 14 a – iOS Fig 14 b).

Fig 14 a/b

These are:

Audio test
Touch the **Audio Test** button to test the sound-vibration associated to the notifications (see paragraph 1.7). Not available on iOS.

Check system
Touch this item to perform the Check System procedure (see the Digistat Suite configuration manual).

Remove badge (*only present in some configurations of the Mobile Launcher*).
Touch this item to remove a registered BadgeID allowing to login via NFC. Read the paragraph 1.3.5 for more information. Not available on iOS.

Settings
Touch this option to access the Settings screen (see the Digistat Suite configuration manual for more information). A specific password is required to access the Settings screen.

Configuration
Touch this item to access the configuration update feature via QR code (see the Digistat Suite configuration manual for more information). Not available on iOS.

Wireless connection status
Indicating the wireless connection status.

About
Touch this option to open a screen containing general info about the Product and Manufacturer. Please read the Product Manual for a complete information on this topic.

1.5 Upper notification bar

 Not available on iOS.

The upper notification bar (Fig 15) is always visible and displays general information. It is not available when running on Myco launcher.
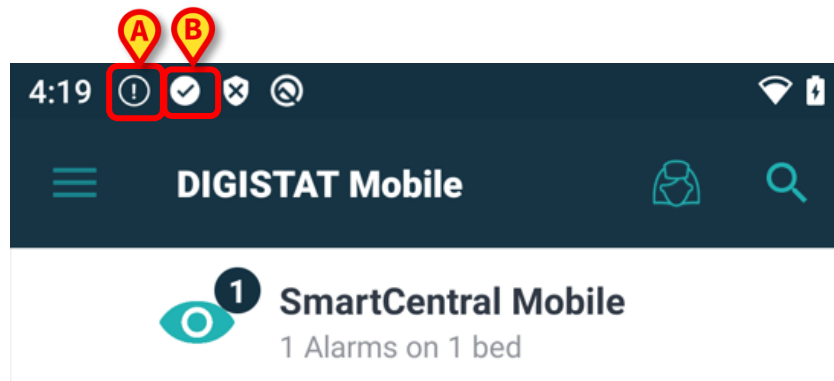

Fig 15

An icon placed on the top-left corner (only visible in non-Myco/UNITE devices - Fig 15 **A**) is displayed in case of alarm notifications for at least one of the patients, coming from any module. The symbol displayed in Fig 15 **B** indicates that the module is active, otherwise a bell

icon and a crossed circle icon will be displayed to respectively indicate that the service has stopped working and the application is disconnected.

On the top-right corner the Wi-Fi connection status and Battery charge status information is displayed (Fig 15).

1.6 General System Notifications

⚠️ Digistat Mobile for iOS does not generate notifications, including alarm notifications of Smart Central Mobile. Therefore, it cannot be used for timely responding to alarms nor for reducing response time to alarms.

Mobile Launcher provides short notifications of alarms/messages coming from any installed module when the application is not active as well (Fig 16 **A**). The highest level notification indicates the overall alarm level of the Mobile Launcher application. Three levels of severity exist for the notifications, each one corresponding to a different color (red = high priority – yellow = medium priority – cyan = low priority); in addition an informative notification is available as reminder for the user (purple).
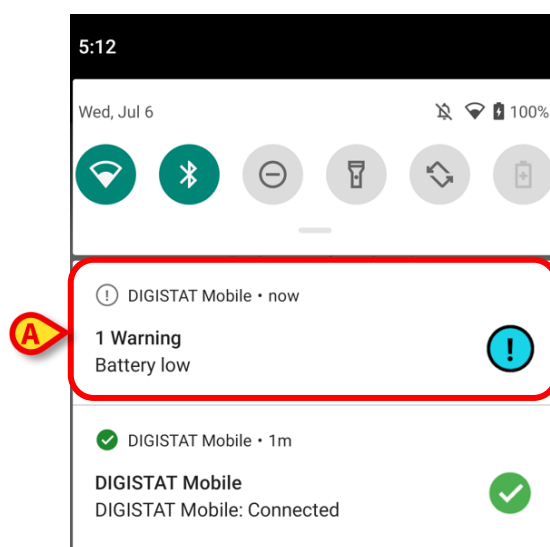

Fig 16

➢ Swipe the notification to make it disappear.

If the alarm notification from a module is related to one patient, then by touching it the alarmed patient tab is displayed. If the alarm notification is raised for more than one patient, by touching it the list of alarmed patients is displayed.
According to the device type, notifications concurrently coming from different applications of the Product mobile suite have a different LED color behavior

- **Myco 3**. The LED always reflects the higher priority alarm at any time;
- **Non – Myco 3**. The LED reflects the latest notification color.

This means in case of multiple notifications, when swiping the higher priority one on a Myco3 device, the LED color is the one of the next notification. On non Myco3 devices, the LED is disabled after a swipe.
In addition to screen notifications, the Product is able to handle sound notifications by means of the device speaker and light notifications by means of the notification led.
In the case of sound notifications, the Product plays the notification with higher priority; if a notification is being executed and a new alarm has to be raised, then the Product restarts the notification with higher priority. Notifications with low priority level don't have any sound associated.

In case of service stop, a notification is provided to the user: it has the highest level of severity and it's not swipable.

In case of disconnection, the Product mobile client attempts to reconnect to the Product server. If this attempt fails, a not-swipable system notification is provided to the user, according to the following two different options:

- **Android previous than 8.0**. One notification, non swipable, highest priority level. The user can mute it by pushing the **Mute** button;
- **Android 8.0 and later**. Two notifications, one non swipable without sound or LED color, the second one swipable with the highest priority level, reporting useful information about the cause of the disconnection. Moreover, the second notification will not be shown anymore since the user pushes the **Mute** button.

1.7 Sound Check procedure

Not available on iOS.

The Sound Check procedure shall be performed at least once per shift.

The Sound Check Procedure makes it possible to verify if the sound notification of alarms is working properly.

To perform the "Sound Check" procedure

➢ Activate the main screen of Mobile Launcher application (Fig 17).
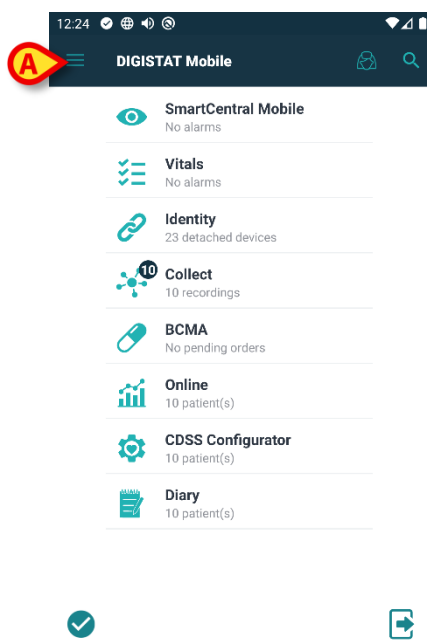
Fig 17

➢ Touch the ▦ icon on the top-left corner of the screen (Fig 17 **A**).

The following menu will be displayed (Fig 18).
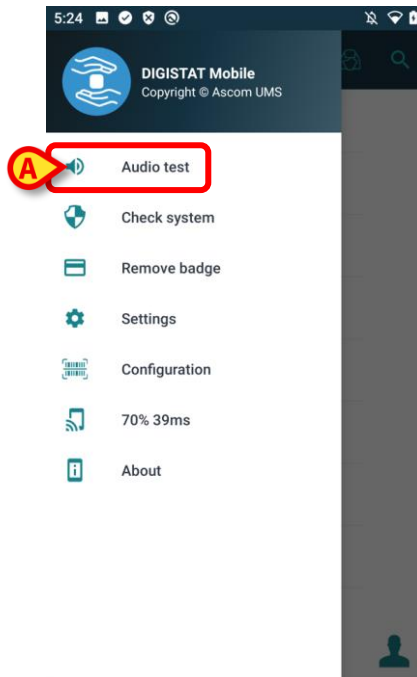

Fig 18

➢ Touch the **Audio test** option (Fig 18 **A**).

A test notification/sound will be this way provided (Fig 19).
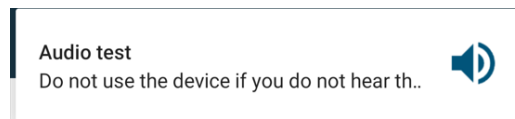

Fig 19

| ⚠ | Do not use the device if you do not hear the alarm sound and/or feel the device vibration. |

1.8 Patient search functionalities (Android)

The Product implements several patients search tools. These tools can be accessed from the Patients List screen.

To access the search functionalities

> ➢ Touch the icon indicated in Fig 20 **A**.
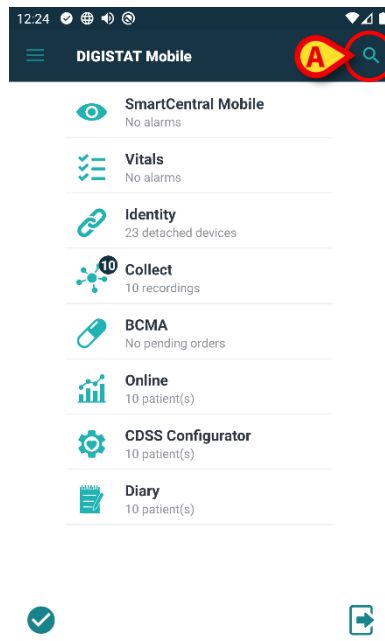
Fig 20

The following screen will open (Fig 21).
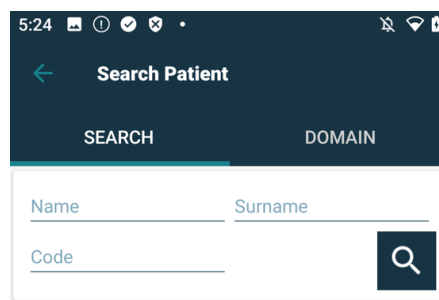
Fig 21

Three search options are available:
1. Textual search (see paragraph 1.8.1);
2. Barcode scan (see paragraph 1.8.2);
3. NFC code scan (see paragraph 1.8.3).

> It is possible to configure the Patient Search functionality to limit the search of dismissed patients to a fixed time interval. Contact your system administrators for the available options.

1.8.1 Textual search

➢ Insert patient data in the fields indicated in Fig 22 **A** (name, surname, code), then click the **Search** button (Fig 22 **B**). Partial information is allowed.
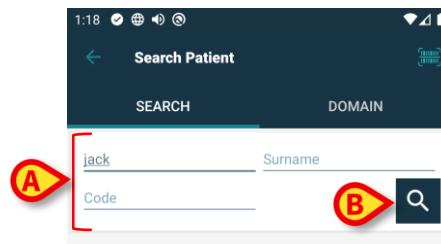
Fig 22

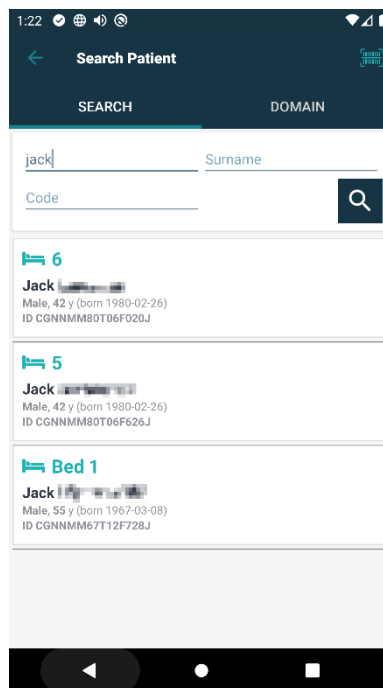The list of patients whose data match those specified will be displayed (Fig 23).

Fig 23

The search is performed among all patients, both belonging and not belonging to the device domain. If the patient is currently in bed, the icon and the bed number are displayed, if the patient is not in bed, the icon is displayed.

➢ Touch the box corresponding to a patient to select the patient. User confirmation is required (Fig 24).
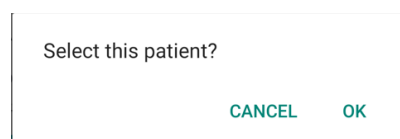

Fig 24

➢ Touch **Ok** to confirm.
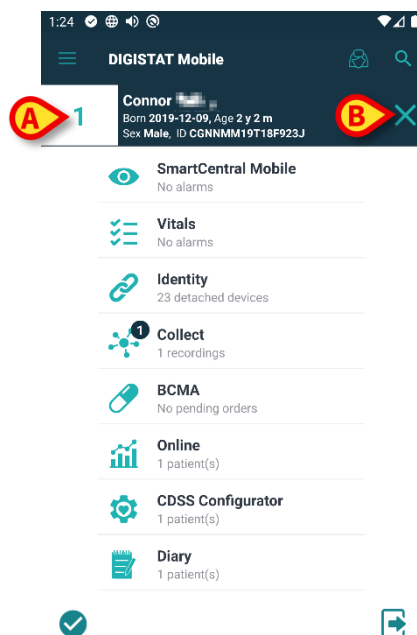
The patient will be this way selected (Fig 25).

Fig 25

Patient data is on top of the page (Fig 25 **A**). All the data in all the Mobile Launcher modules are now filtered by patient (i.e. all and only the selected patient alarms/notifications are displayed).

> If a padlock icon - 🔒 - is displayed alongside the patient's name, it means that some functionalities are not available for that patient.

➢ Touch the cross indicated in Fig 25 **B** to deselect the patient and turn to "All Patients" mode again.

1.8.2 Barcode Scan search

The Barcode Scan functionality makes it possible to select a patient by scanning his/her code. To access the Barcode Scan functionality on non-Myco 3 devices:

➢ Access the search page as described in paragraph 1.8.

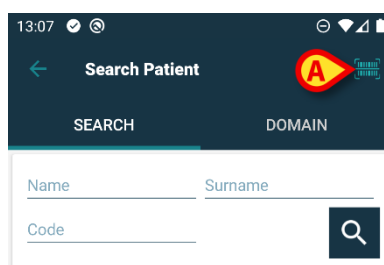➢ Touch the ▦ icon indicated in Fig 26 **A**

Fig 26

The device camera will be in this way activated.

- ➢ Scan the wanted patient's barcode.

To access the Barcode Scan functionality on Myco 3 devices:

- ➢ Access the search page as described in paragraph 1.8.

- ➢ Touch the side button dedicated to barcode scan (the button indicated in Fig 26 **A** is not present in this case).

The flash camera turns on to help the user to shoot the barcode. At the same time, a message is shown to the user signaling the barcode scanning.
The patient is this way selected. The screen shown in Fig 25 (example) will be displayed.
If the barcode is not recognized within a certain configured time, a "Timeout" message is displayed.

1.8.3 NFC Reader search

The NFC Scan makes it possible to select a patient using the device's own Near Field Communication sensor.

To do that:

- ➢ Access the search page as described in paragraph 1.8.

The device NFC reader will be this way activated.

- ➢ Position the device close to the patient's Tag.

The patient will be this way selected. The screen shown in Fig 25 will be displayed.

1.8.4 Single Patient Selection

To select a single patient:

- ➢ Touch the 🔍 icon indicated in Fig 20 **A**. The following screen will appear (Fig 27):
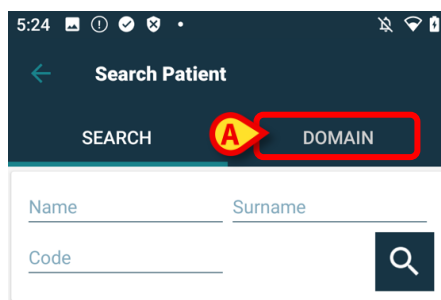

Fig 27

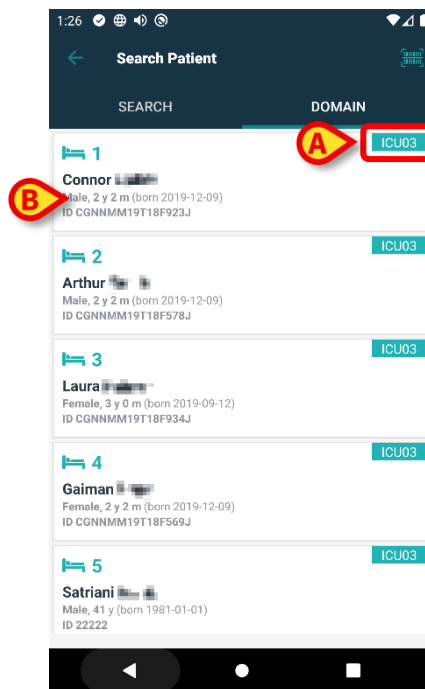➢ Touch the "**DOMAIN**" tab (Fig 27 **A**). The following window will appear (Fig 28)

Fig 28

In Fig 28 all the patients in the domain are listed, The label on the top right corner of each tile indicates the hospital unit (Fig 28 **A**).
One single patient can be selected by touching the tile corresponding to his/her bed.

➢ Touch the tile indicated in Fig 28 **B**. User confirmation is required (Fig 29).
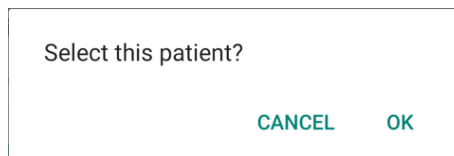

Fig 29

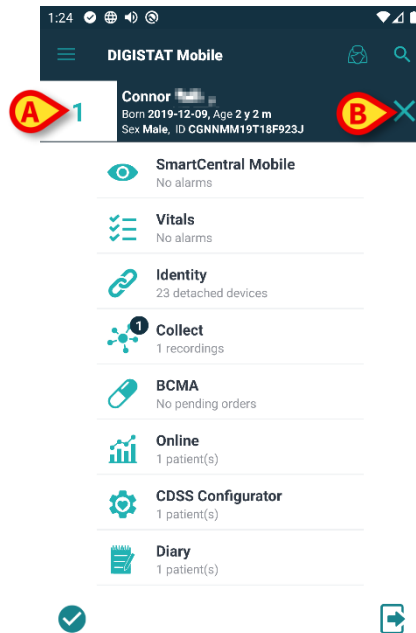➢ Touch **Ok** to confirm. After confirmation, the following screen is displayed.

Fig 30

Patient data is on top of the page (Fig 30 **A**). All the data in all the Mobile Launcher modules are now filtered by patient (i.e. all and only the selected patient alarms/notifications are displayed).

➢ Touch the cross indicated in Fig 30 **B** to deselect the patient.

1.9 Patient search functionalities (iOS)

Mobile Launcher implements patients search tools. These tools can be accessed from the Patients List screen.

To access the search functionalities
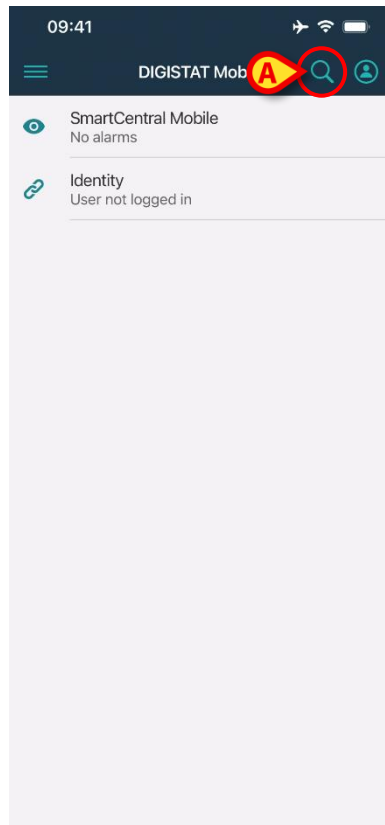
➢ Touch the icon indicated in Fig 31 **A**.

Fig 31
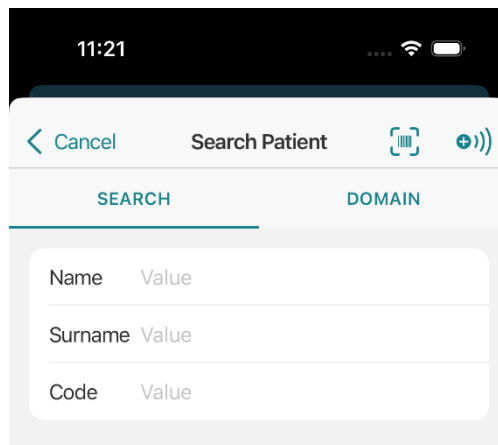
The following screen will open (Fig 32).

Fig 32

Three search options are available:
1. Textual search (see paragraph 1.9.1);
2. Barcode scan (see paragraph 1.9.2);
3. NFC code scan (see paragraph 1.9.3).

1.9.1 Textual search

➢ Insert patient data in the fields indicated in Fig 33 **A** (name, surname, code). Partial information is allowed.
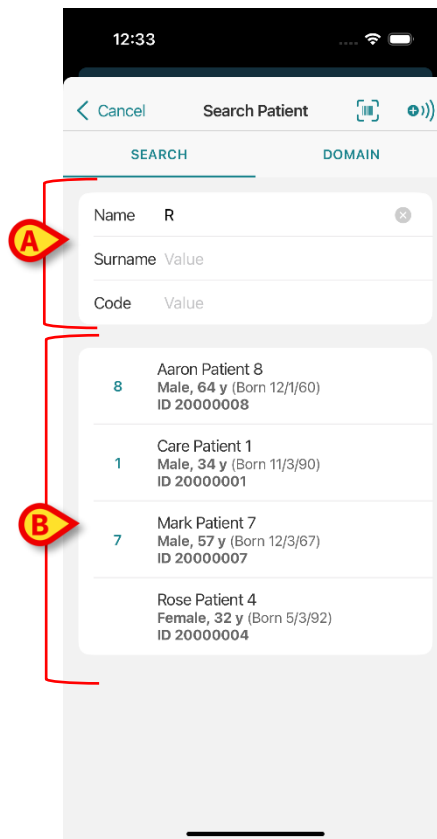

Fig 33

The list of patients whose data match those specified will be displayed (Fig 33 **B**).

The search is performed among all patients, both belonging and not belonging to the device domain. If the patient is currently in bed, the bed number is displayed, if the patient is not in bed. The bed number is not displayed.

➢ Touch the box corresponding to a patient to select the patient. User confirmation is required (Fig 34).
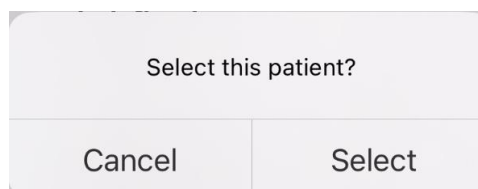

Fig 34

➢ Touch **Select** to confirm.
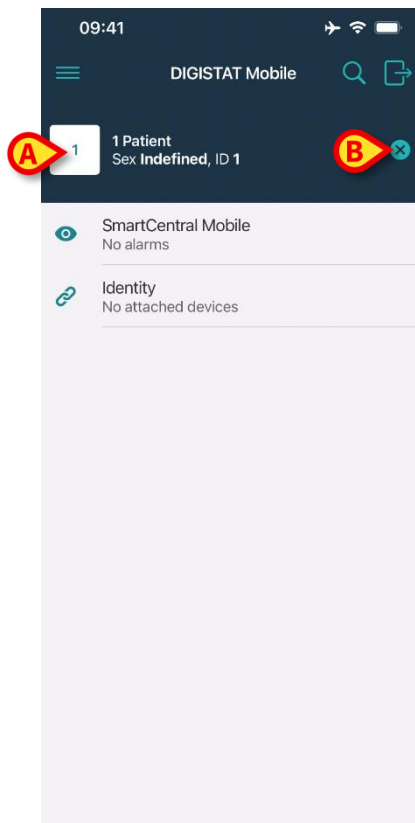
The patient will be this way selected (Fig 35).

Fig 35

Patient data is on top of the page (Fig 35 **A**). All the data in all the Mobile Launcher modules are now filtered by patient.

> If a padlock icon - 🔒 - is displayed alongside the patient's name, it means that some functionalities are not available for that patient.

➢ Touch the cross indicated in Fig 35 **B** to deselect the patient and turn to "All Patients" mode again.

1.9.2 Barcode Scan search

The Barcode Scan functionality makes it possible to select a patient by scanning his/her code. To access the Barcode Scan functionality on non-Myco 3 devices:

➢ Access the search page as described in paragraph 1.9.

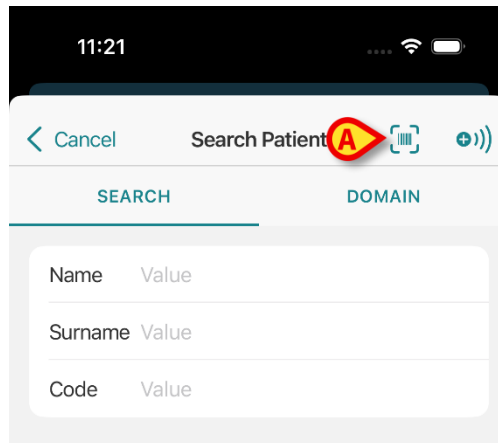➢ Touch the ⬚ icon indicated in Fig 36 **A**.

Fig 36

The device camera will be in this way activated.

➢ Scan the wanted patient's barcode.

The flash camera turns on to help the user to shoot the barcode. At the same time, a message is shown to the user signaling the barcode scanning.
The patient is this way selected. The screen shown in Fig 35 (example) will be displayed.
If the barcode is not recognized within a certain configured time, a "Timeout" message is displayed.

1.9.3 NFC Reader search

The NFC Scan makes it possible to select a patient using the device's own Near Field Communication sensor.

To do that:

➢ Access the search page as described in paragraph 1.9.

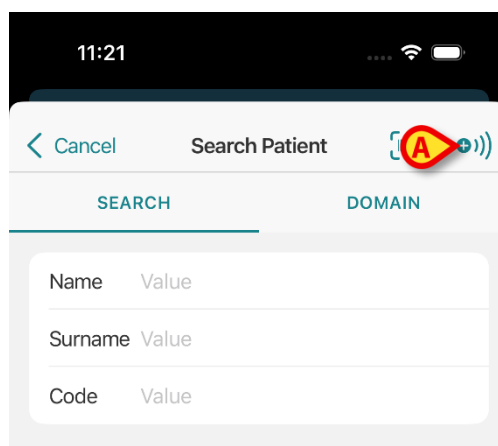➢ Touch the ⊕⟩⟩ icon indicated in Fig 37 **A**.

Fig 37

The device NFC reader will be this way activated.

➢ Position the device close to the patient's Tag.

The patient will be this way selected. The screen shown in Fig 35 (Example) will be displayed.

1.9.4 Single Patient Selection

To select a single patient:

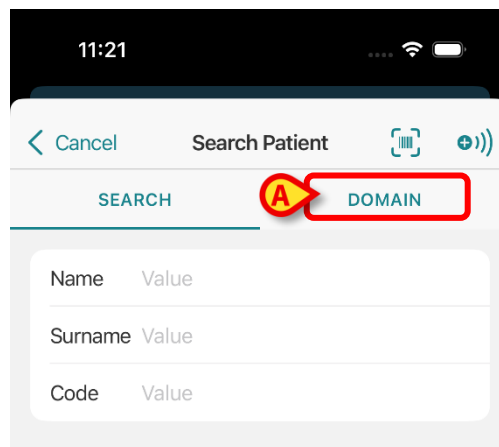➢ Touch the 🔍 icon indicated in Fig 31 **A**. The following screen will appear (Fig 38):

Fig 38

➢ Touch the "**DOMAIN**" tab (Fig 38 **A**). The following window will appear (Fig 39)
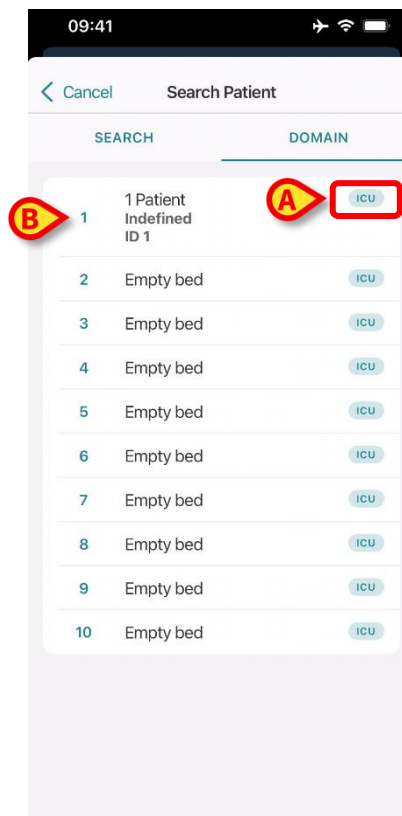

Fig 39

In Fig 39 all the patients in the domain are listed. The label on the right of each tile indicates the hospital unit (Fig 39 **A**).
One single patient can be selected by touching the tile corresponding to his/her bed.

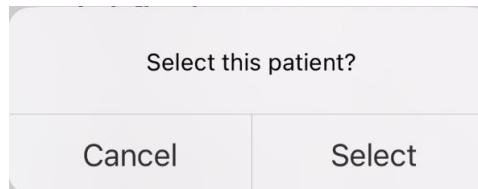➢ Touch the tile indicated in Fig 39 **B**. User confirmation is required (Fig 40).

Fig 40

➢ Touch **Select** to confirm. After confirmation, the following screen is displayed.
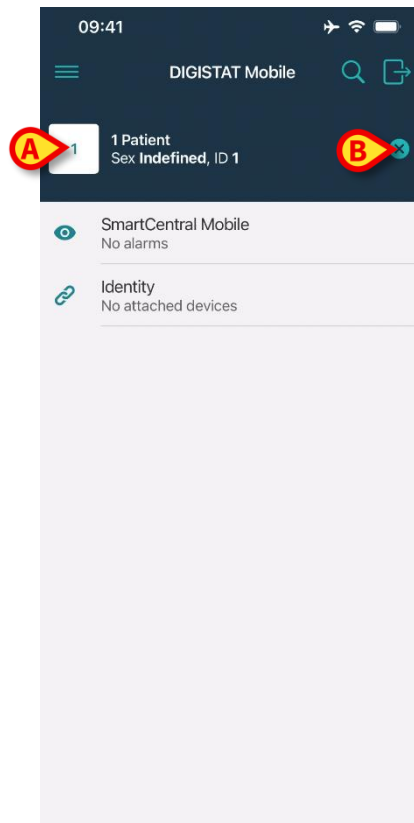

Fig 41

Patient data is on top of the page (Fig 41 **A**). All the data in all the Mobile Launcher modules are now filtered by patient

➢ Touch the cross indicated in Fig 41 **B** to deselect the patient.

1.10 Patients Assignment Functionality

 Not available on iOS.

Patient's assignment makes it possible for a user to select one or more patients and create a group of patients who are under their charge. The name of this group in the Mobile Launcher application is "My Patients".

Since the user assigns himself some patients, the following notifications can be displayed on the handheld device:

    a. The notifications related to the patients assigned (i.e. in the group "My patients");

    b. The notifications related to the patients assigned (i.e. in the group "My patients") and those related to the patients that no one has explicitly taken in charge;

    c. The notifications related to the patients assigned (i.e. in the group "My patients"), those related to the patients that no one has explicitly taken in charge and those related to other patients if the devices which had them in charge "lose" them (for any reason, low Wi-Fi signal for instance).
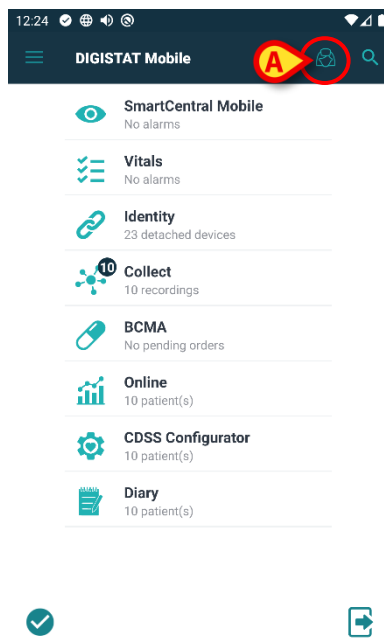

Fig 42

To select the list of patients a user assigns himself and forming "My patients" list, on Mobile Launcher Central screen,

> Touch the icon (Fig 42 **A**).

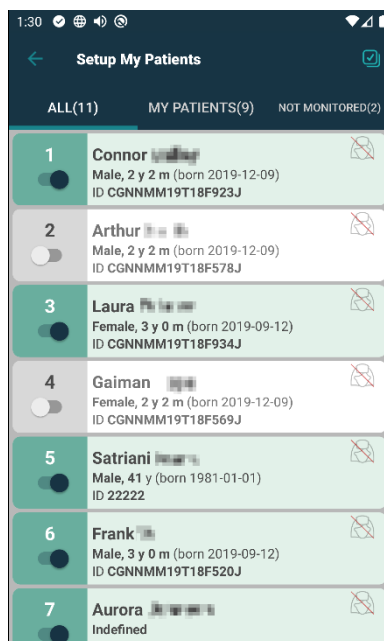The following screen will be displayed (Fig 43 - "Setup My Patients").

Fig 43

A patient can be selected/deselected by touching the corresponding "tile". Each tile corresponds to a bed. Also, it is possible to select or deselect all the patients by checking the box on the top right corner (Fig 44 **A**).
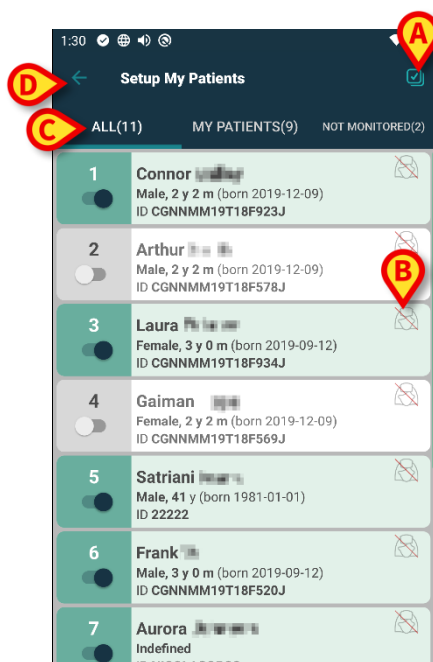

Fig 44

The icons on the right of the patient names (Fig 44 **B**) have the following meanings:

- Patient is part of "My patients" of another user. It is still possible to select the patient. If two users select the same patient, the patient will be grouped under "My patients" for both users.

- Patient is not monitored. I.e. another user has him/her in charge, but at the moment, due (for example) to Wi-Fi connection failure, no one is monitoring him/her.

No icon means that no one has the patient in their "My patients" list, so the patient is not monitored.

The filters indicated in Fig 44 **C** make it possible to display:

- All patients;
- Only the assigned patients;
- Only the patients that are not monitored.

The icon indicated in Fig 44 **D** makes it possible to go back to "My Patients" list screen.

 It is possible to configure the Mobile Launcher to automatically assign to the mobile device all patients belonging to the device domain. In this case, it is not necessary to manually handle the "MyPatients" group; the / icons are not displayed. Contact your system administrators for the available options.

1.11 Patient selection/assignment, modules and domain

In the present document the phrase "patient selection/assignment" was used to generically refer to the operations in which a patient is selected in order to perform some operations on them within the Mobile Launcher environment. But, for some of the existing Digistat Mobile modules, it would be more correct to talk about "bed selection/assignment".
The main differences are detailed as follows:

- An application can operate within the domain or without the domain;
    1. The Smart Central and Vitals modules operate within the domain. This implies that they can select beds or patients within the user domain;
    2. The Identity module can operate in three different ways, depending on a specific system option: 1 - without domain, meaning that Identity can establish an association patient/device for patients outside the user domain as well; 2 – within the domain; 3 – with a single pre-selected patient. For iOS the first option (without domain) is not available. For more information see the Identity Mobile user manual (document USR ENG Identity Mobile).

- An application operating in the domain can handle either beds or patients;
    1. The Smart Central module handles selection by bed (because it could be important to track data from devices coming from a bed occupied by a patient not yet identified). This implies that Smart Central can select or assign empty beds;
    2. The Vitals module handles selection by patient (because planned parameters acquisition is performed on patients already admitted and identified). This implies that Vitals cannot select an empty bed.

- There are two modes to define a domain (i.e., the list of patients managed by a specific device). Only on Android, this depends on the System Option *Userrightsmode* - refer to the system administrators for more information:
  1. the domain is defined per device. In this case, after user change, the domain remains the same;
  2. the domain is defined per user, basing on the hospital locations associated to the user. In this case, after user change, the domain changes.

1.12 Device Availability

Not available on iOS.

The setting of device availability is useful if the user has to be considered as "unavailable" for a temporary condition. This can be triggered by the user in the mobile application or (if configured) by placing the device in its Docking Station.

1.12.1 Setting by the User

It is possible to set the device as "unavailable". In that case, the beds owned by the "unavailable" device will be displayed as "unattended" on the other devices in the ward. Notifications are still received on the "unavailable" device, still triggering sounds and/or vibration.

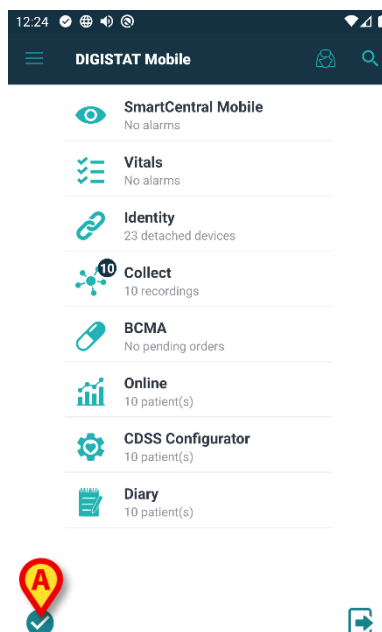➢ Touch the symbol in Fig 45 **A** to set the device as "unavailable".

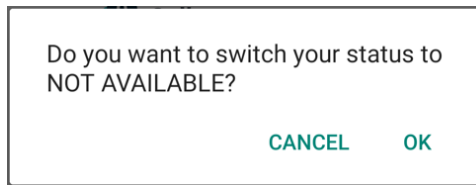**Fig 45**

User confirmation is required.

Fig 46

➢ Touch **OK** to set the device as unavailable.

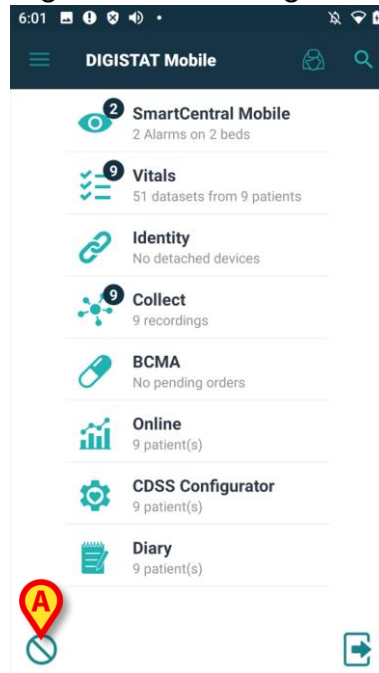The launcher home page will change as shown in Fig 47.

Fig 47

➢ Touch the symbol in Fig 47 **A** to set the device as "available";
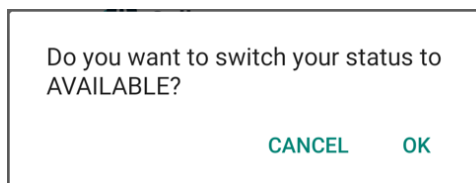
User confirmation is required.

Fig 48

➢ Touch **OK** to set the device as available.

The launcher home page will change as shown in Fig 45.
The presence or absence of the icon button is related to the configuration of the system option *EnableAvailability*. If this is set to True, in fact, the icon is visible, otherwise, if set to False, it is hidden. Please, refer to the *DSO ENG System Options* manual for further information.

1.12.2 Setting by Docking Station

ⓘ	Not available on iOS.

The Docking Station is an accessory device able to charge mobile devices and maintain network connection. It can host a certain number of mobile devices, thus allowing the user to change an uncharged device with a full charged one.

A specific configuration parameter has to be set in order to consider the device as "unavailable" if placed in the Docking Station.

The beds owned by the "unavailable" device will be considered as "unattended" and user will be logged out. Nonetheless, the device set as "unavailable" remains connected to mobile server and continues receiving alarms and messages.
In this case such alarms will not trigger any sound or vibration.

1.13 Widgets

ⓘ	Not available on iOS.

The Product implements a set of widgets i.e. graphic controls intended to facilitate some specific actions from the user.
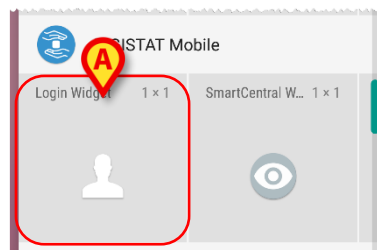

Fig 49

In the present paragraph the widget related to the overall Product mobile environment is shown.

1.13.1 Login Widget

The Login Widget allows the user to authenticate in the Product mobile application and to search and select patients. To use such a feature the user has to do the following actions:

➢ Push the icon shown in Fig 49 **A** and release it on the device screen.

The Login Widget as default will be placed on the device screen with size 1 x 1 (Fig 50)

Fig 50

➢ Push the icon in Fig 50 **A** to authenticate in the Product (Fig 51).

Fig 51

After the authentication, the Login Widget shows the user currently logged in:

Fig 52

➢ Long press the icon in Fig 50 **A** or Fig 52 **A** and then release to show grab points for widget resize (Fig 53 **A** if user is logged, Fig 53 **B** if user is not logged):
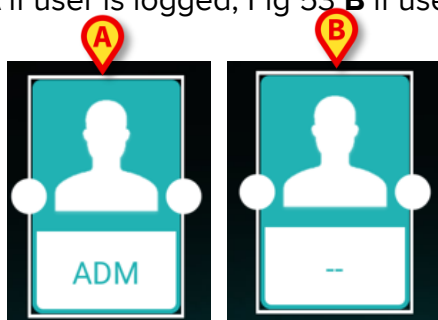

Fig 53

➢ Touch and move one of the two grab points and then push the desktop background to resize the widget to the size 2 x 1, 3 x 1, 4 x 1:
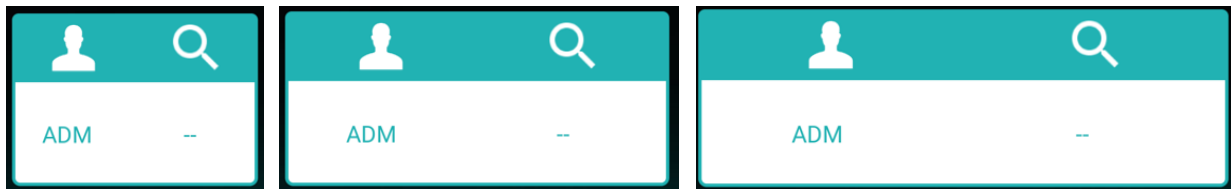
Fig 54

> Touch the icon in Fig 54 **A** to access the Patient Search & Selection functionality (Fig 55).
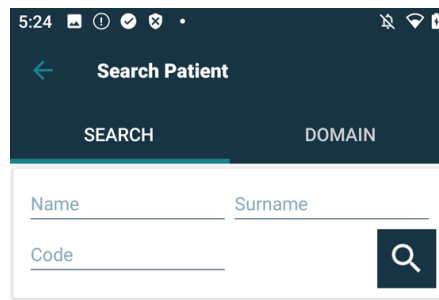

Fig 55

Such a feature is accessible only if the user is logged in.
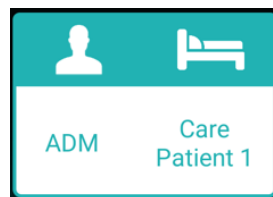After the Patient Selection, the Login Widget shows the patient currently selected (Fig 56):

Fig 56

> Touch again the Login Widget to show the main page of the Mobile Application with the single patient selected.

Note: in the Widget's size 2 x 1 some patient names could result too long to be correctly displayed. In this case, it is suggested to extend the size of the Widget.
If the user logs out while a patient is currently selected, the Login Widget will show a "blank view", i.e. no user and no patient will be shown.

2. Alarm Statistics Module
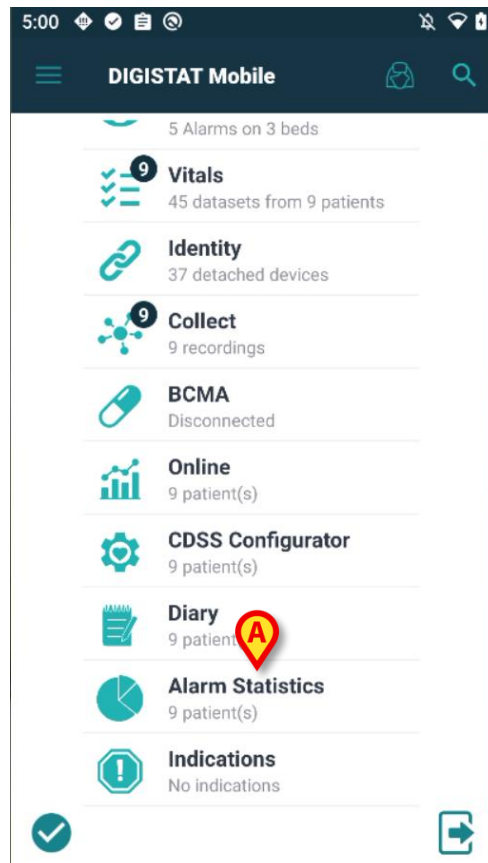

ⓘ   Not available on iOS.

Fig 57

The Alarm Statistics module displays alarm events in ways of bar and pie charts, summary and details reports for a selected patient.

To explore **Alarm Statistics Module**,
  ➢ just launch **Digistat Mobile** and its tile appears on the launcher page, listed among other installed modules (Fig 57 **A**).
Below the module name, the number of patients present in the current domain is shown.
The module doesn't require a user to be logged in.

Clicking on the **Alarms Statistics** tile a new page opens and it shows the list of patients cards, divided in two groups – "**My patients**" and "**Unassigned patients**" – with their bed number, patient data (gender, age, date of birth and ID) and the thumbnail of bar charts. The empty beds are filtered out from the list.
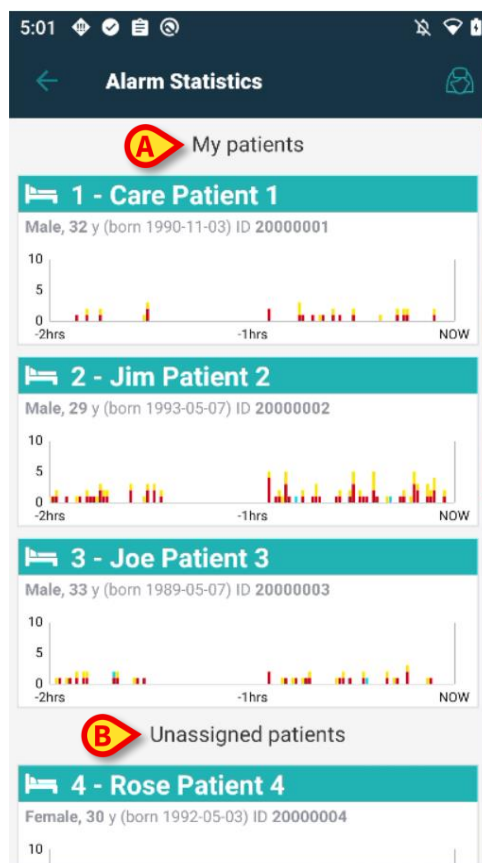
Fig 58

Each chart displays the latest alarms for the corresponding patient.
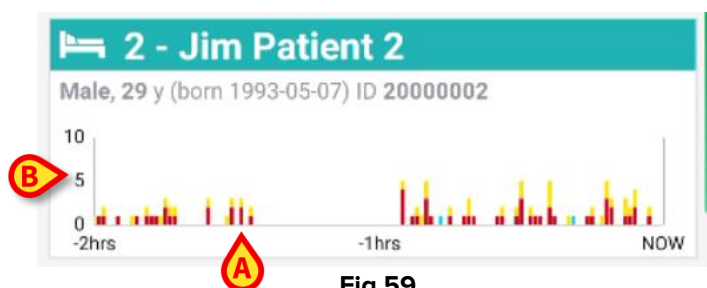

Fig 59

On the x-axis (Fig 59 **A**) the time is represented while on the y-axis (Fig 59 **B**) the number of alarms is recorded and displayed as bars of different heights and colored with standard priority colors according to the different types of alarms (High, Medium and Low priority). The chart shows the alarms from the oldest to the most recent ones, from left to right. If no alarm is recorded in reference time range - here 2 hours are given – the chart is not shown. To access the **statistics patient detail view**
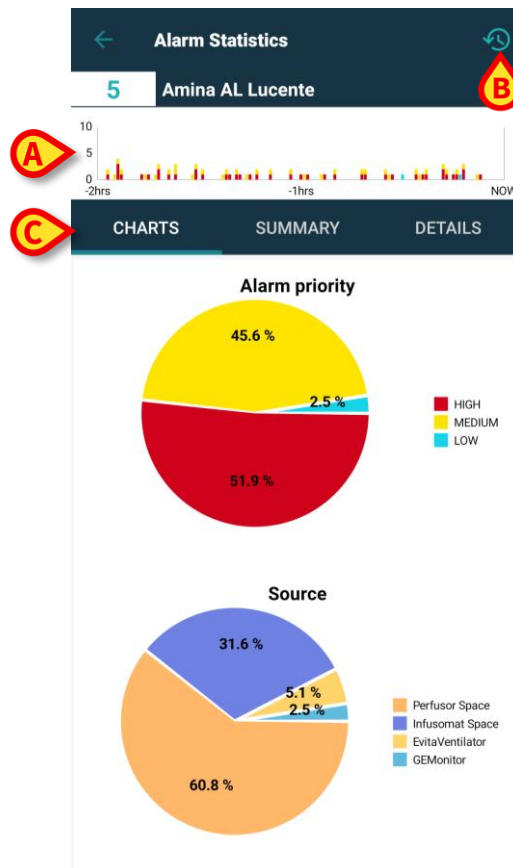 ➢ just click on a **patient card**.

Fig 60

A new page is shown, and, in the upper part - below the patient name and bed number - it displays the same **bar chart** (Fig 60 **A**) shown as thumbnail on the patient list page. At the top right of the action bar, a **time range icon** (Fig 60 **B**) is given. In the central part **three tabs** (Fig 60 **C**) are provided and the first one is selected by default.

For information on the functionality and use of the **Alarm Statistics** module, refer to the *Smart Central Mobile* user manual (*USR ENG Smart Central Mobile*).

3. Indications Module

 Not available on iOS.

The Indication module is intended to be used to display persistent warnings or notices – indications are similar to alarms, but they can last for hours or never cease, and they do not generate proper Android system notifications - of worrying events or important reminders relating to a specific patient, action, or a workstation status generated by different components of the Digistat framework. Some examples are: a patient allergic to X, patient with mental problems, score X not yet entered etc.
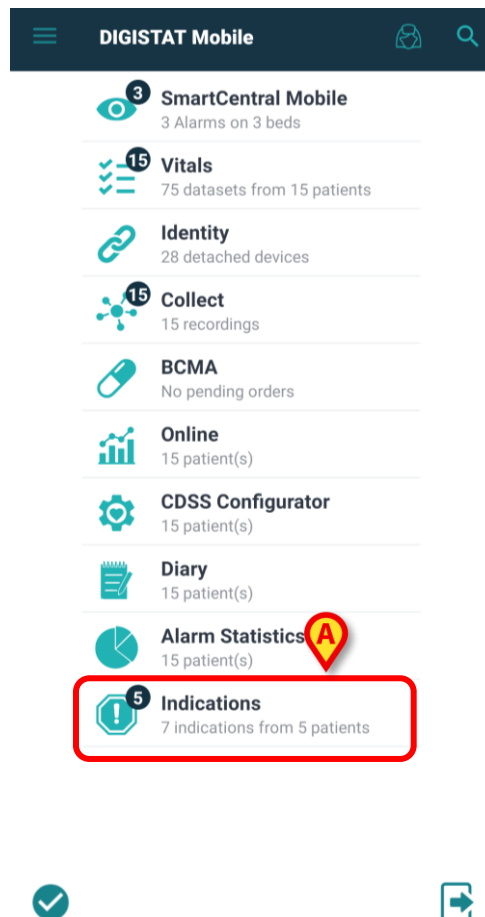
Fig 61

To open the Indications Module, just launch Digistat Mobile and its tile is listed among other installed modules (Fig 61 **A**).
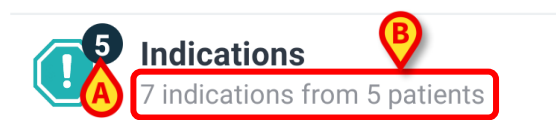

Fig 62

On the Indications icon, a badge with a number is given and this is the number of beds/patients with at least one indication present (Fig 62 **A**), whose priority level is higher than the "info" level. Below the module name, the number of indications coming from a number of patients present in the current domain is shown (Fig 62 **B**).
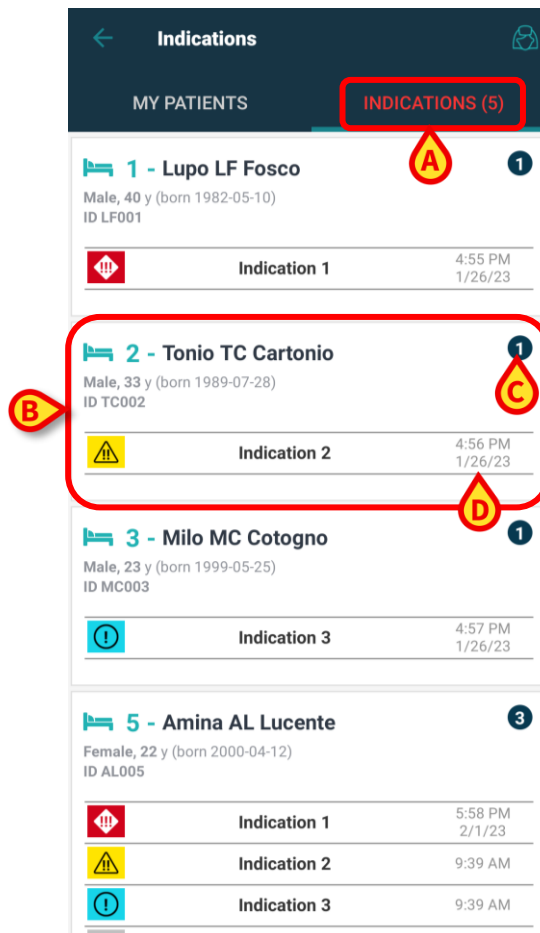
Fig 63

If at least one indication is present, clicking on the **Indications** tile, a new page opens on the **Indications Tab** (Fig 63 **A**) showing the **patient list** (Fig 63 **B**) arranged by cards displaying patient details (**name**, **gender**, **birthdate**, **ID**), a **badge** with the number of indications (Fig 63 **C**) on the upper right of the card and the **indication** or **list of indications** (ordered by severity/priority) with the corresponding icon, title, and date/time (Fig 63 **D**). If the indication refers to the current day, only the time will be displayed. Info level indications are displayed but are not counted in the counter badge.
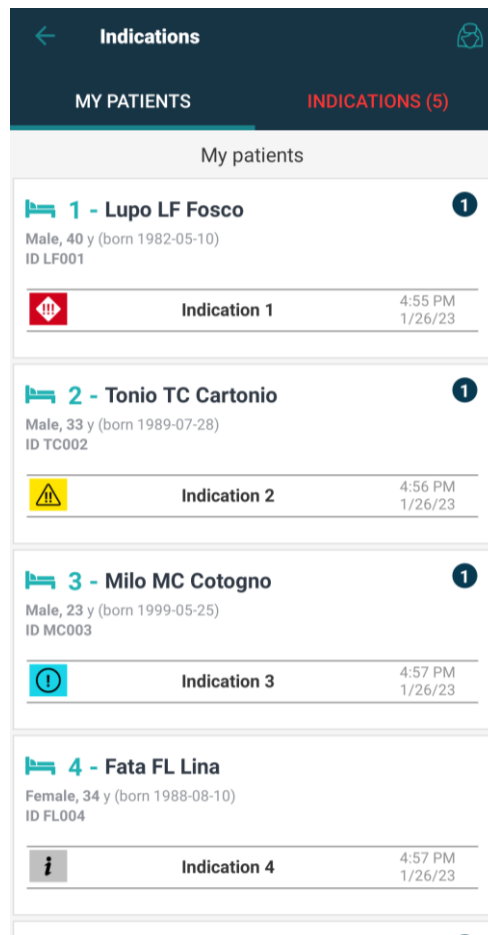
Fig 64

Clicking on "**My Patients**" tab, the relative visualization (which has already been explained and it is the same across all Digistat Mobile modules) is shown and it also includes patients with no active indications.
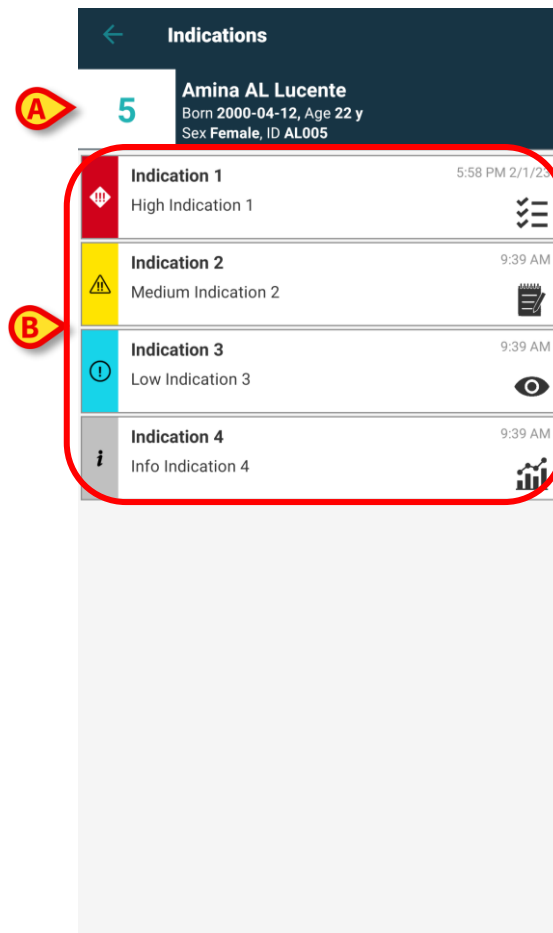
Fig 65

To access the patient detail view, select a patient tile. In the upper part of the page, the **bed number** and **patient data** are displayed while in the central part, the **indications** are listed and sorted by **priority** first and then by **date** (from those with higher priority to those with no priority, from the most recent to the oldest).

Fig 66

Each indication card contains the **priority icon** (Fig 66 **A**), the **title** (Fig 66 **B**) and **description** (Fig 66 **C**) of the indication (if the description is not present, an abstract is given instead), **date** and **time** (Fig 66 **D**), an **optional icon** (Fig 66 **E**) of the module to which the indication refers. The example (Fig 66) shows 4 indications of different types:
- a high priority related to the **Vitals Mobile** module;

- a medium priority related to the **Diary Mobile** module;
- a low priority related to the **Smart Central Mobile** module;
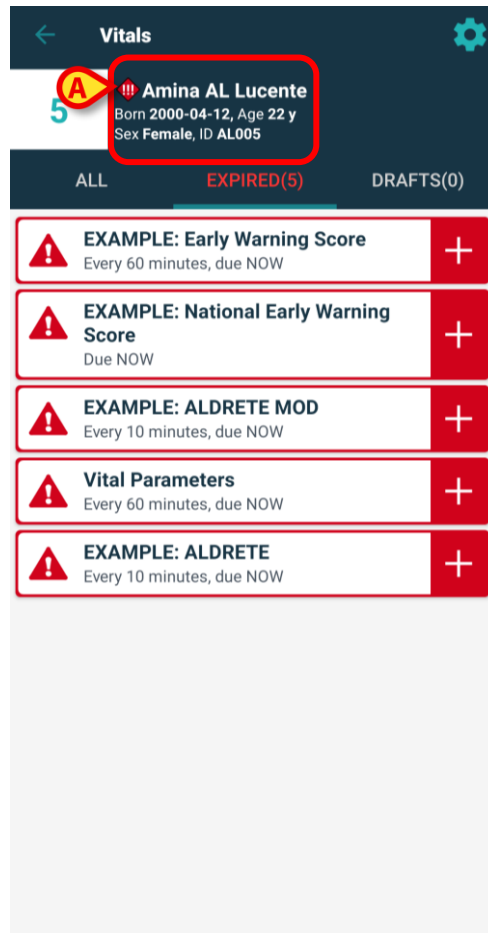- an info indication related to the **Online Mobile** module.

Fig 67

Clicking on an **indication**, it is possible to move to connected modules without going through the Launcher page. If a patient has one or more indications, the **highest severity/priority alert icon** is displayed next to the patient's name (Fig 67 **A**) in the patient card of the patient detail view of each Digistat module. If the indication has priority of "info" type, no icon is displayed. The following pictures show patients with indications of different priority levels, across different modules.
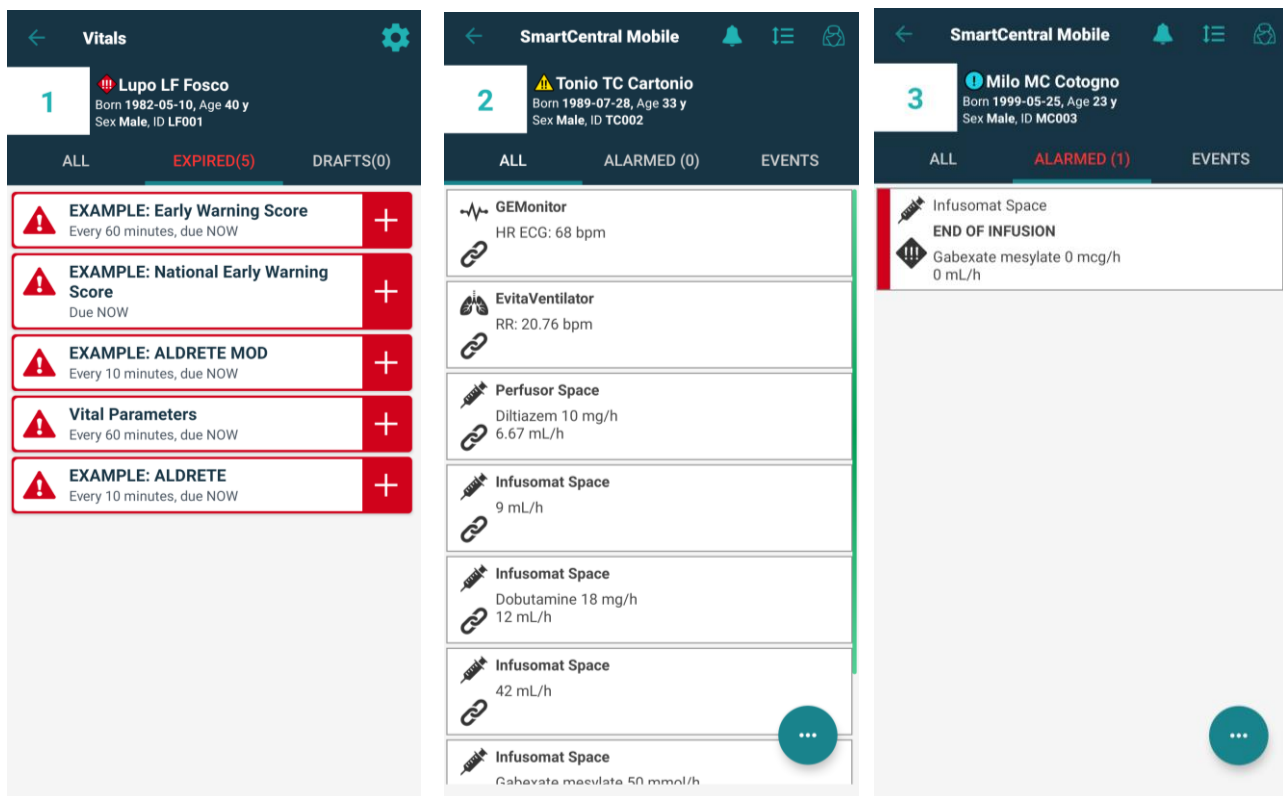
Fig 68

Clicking on the **Indication icon** in the patient card (Fig 69 **A**), the user accesses the module page where the content of the active indication can be read in full and, eventually, the list of all the indications (Fig 69 **B**) available for that patient is given.
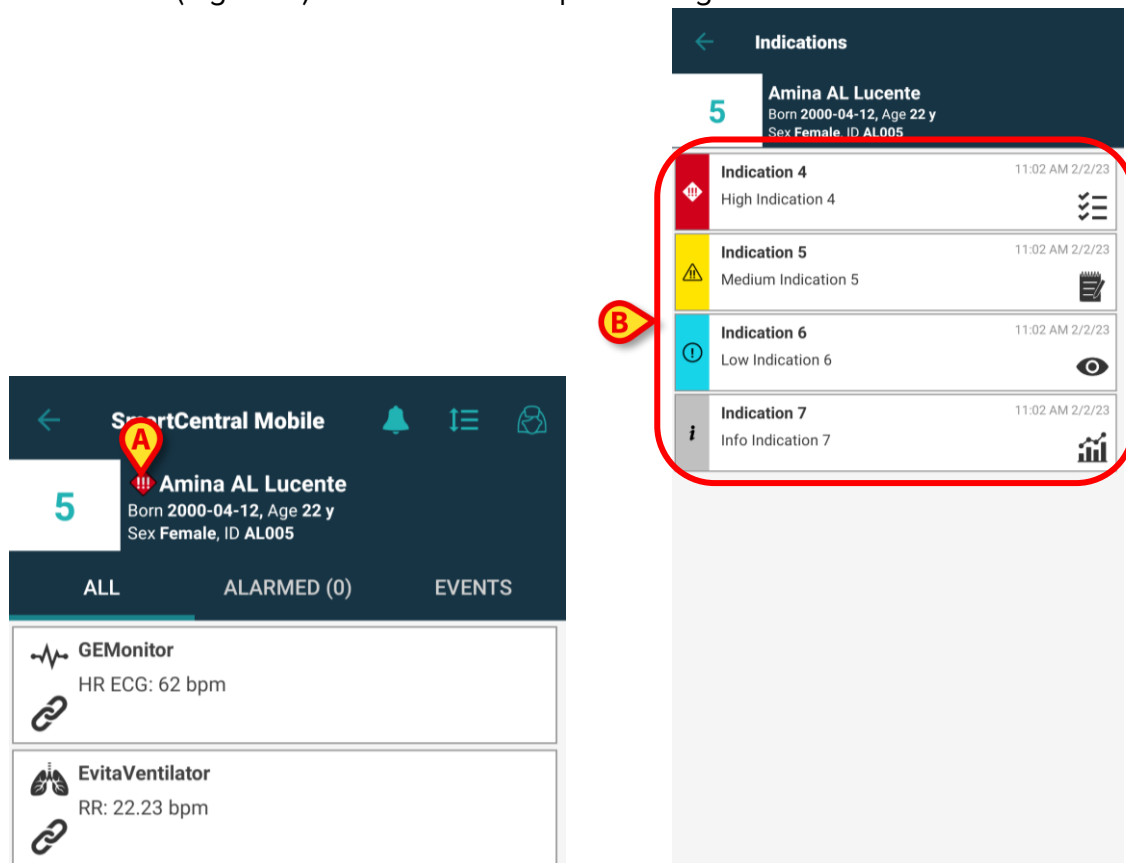

Fig 69