





# **SupportICUs app design (phone & tablet) walkthrough**



# FIGMA designs

## **TABLET light theme design:**

[https://www.figma.com/file/4i6n2tJIVQPW6GO2JOOu3S/supportICUs-light-theme-\(tablet\)?node-id=0%3A1](https://www.figma.com/file/4i6n2tJIVQPW6GO2JOOu3S/supportICUs-light-theme-(tablet)?node-id=0%3A1)

## **PHONE dark theme design:**

<https://www.figma.com/proto/AFBAQEbkz8kfAzBFhs3Der/supportICUS?node-id=0%3A1&scaling=min-zoom&page-id=0%3A1&starting-point-node-id=13%3A20>

**Is app design art?**

# YES!

App design is a combination of UI and UX design to build out a usable piece of software. Organizing app capabilities and methods, blending colors, shapes, icons, images and even simple lines; all work together in order to get a message across and create a calm digital environment for the stressful ICU workplace.

It also consists of elements of other design methods, such as:

- Graphic design
- Web design

# Our design principles

The goal is for our design to be:

User friendly

Simple-to the point

Functional-easy to use

Aesthetically pleasing

Uplifting-calming-optimistic

# Disclaimer

The effectiveness and the aesthetics of our design are to be judged by the reader and the future users of the app. So, in the following slides we are going to present a walkthrough of our ideas and inspirations, explaining key details.

# App Icon

This is the icon of our app. The colors were chosen to be comforting and are used throughout the whole app. The dark blue at the top is used in the dark theme, while the lighter blue in the middle is used in the light theme. The name was chosen to be catchy, as it can be read similarly to 'Spartacus'. Also, it was chosen to be to the point, because it supports ICUs in many ways and areas. For example, 'eICU' is not a broad enough name, as it refers to a different kind of applications.





# TABLET

## Light theme

# Initial Screen

The loading screen was chosen to be the one on the right, because it encapsulates the multi-dimensionality of the app, being both a clinical decision support system and a data analytics platform and aiding both in the patients' and in the ICU's organization. Also, it extends the color continuity of the chosen main colors.



# Sign in/up Screen

This screen is –of course- essential. Rather than being quite boring, we chose the radial gradient technique for a more playful color design, that will make the user more eager to continue (we tried to make a calming/optimistic color combination). Also, the radial gradient separates the sign up with the login options.

**SICUs**


email  
username@mail.com


password  
At least 8 characters


confirm password  
Please re-enter your password


**sign up**

or

 **CONTINUE WITH MAIL**

 **CONTINUE WITH APPLE**

 **CONTINUE WITH GOOGLE**

 **CONTINUE WITH FACEBOOK**

**LOG IN**

# Main Screen

Of course, the color continuity is also extended by the main screen. The rest of the colors were chosen with the aim to blend in with the main light blue. One thing to note is that the letters are not black but rather a combination of brown and dark red, same as the one used for the frame of the patient 'James Bond' (selected frame).

On the left we have a static oval section that help us avoid navigating through many windows; there are organized options only there that can change window! Therefore, the design is very simplistic and going through a window and then through another and another etc., is avoided. Also, returning to a previous window is simple, implemented by the backwards arrow.

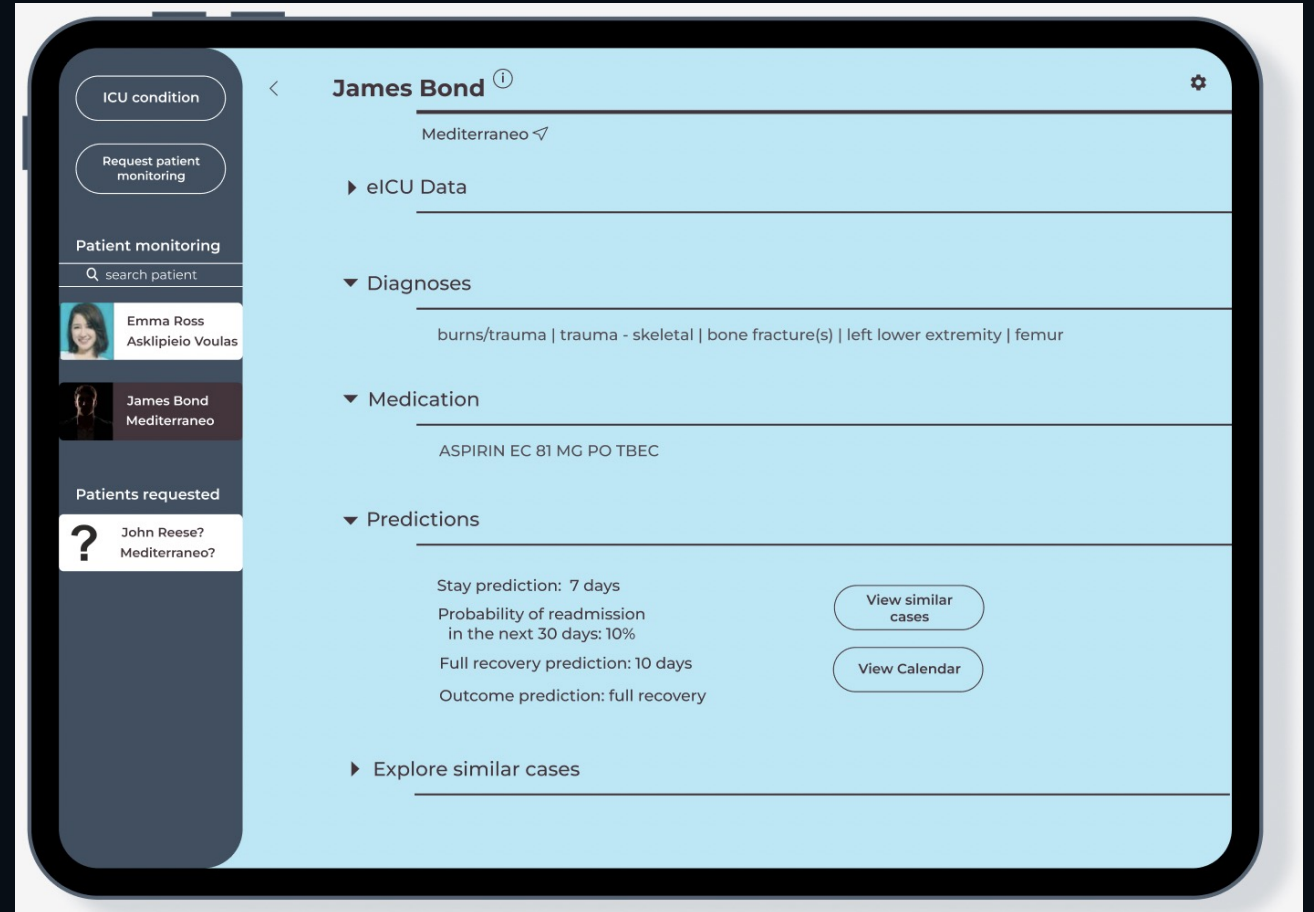
Finally, the data are organized in different conceivable blocks. The main titles are emphasized by the lines that reach the right side and can be minimized via the arrow next to the title (same way as google colab).



# Main Screen II

Here one can see how the titles are organized and the importance of minimizing data that is unnecessary at the moment (e.g. 'eICU data').

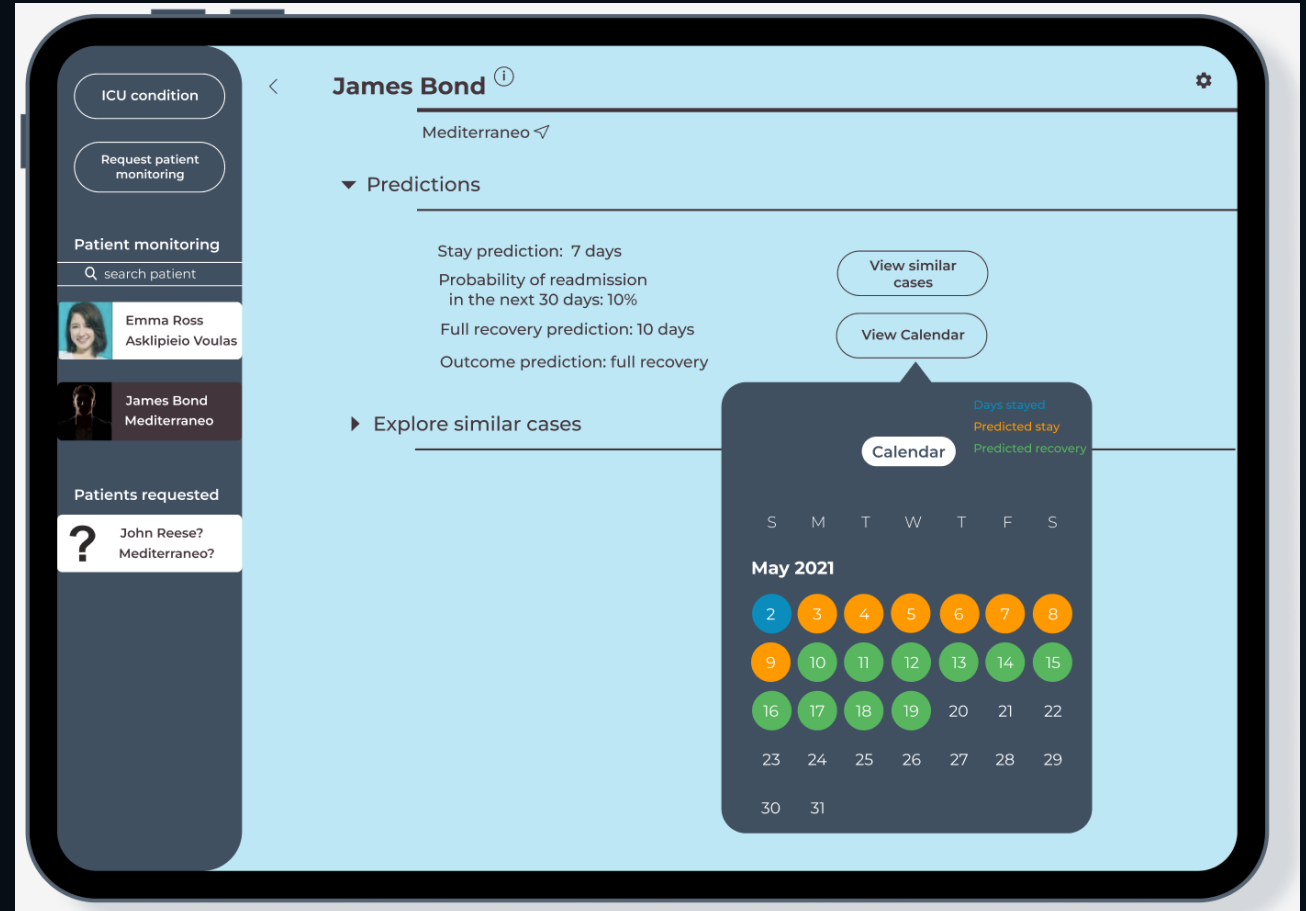
Speaking of titles, the name of the patient is the main title and so the letters and corresponding line are more obvious than the rest of the titles. Under the line of a title, additional info is provided. For a patient, we have their corresponding hospital and the location icon right next to it. The rest of the lines are used to mark the position of titles and therefore the one of a new section.





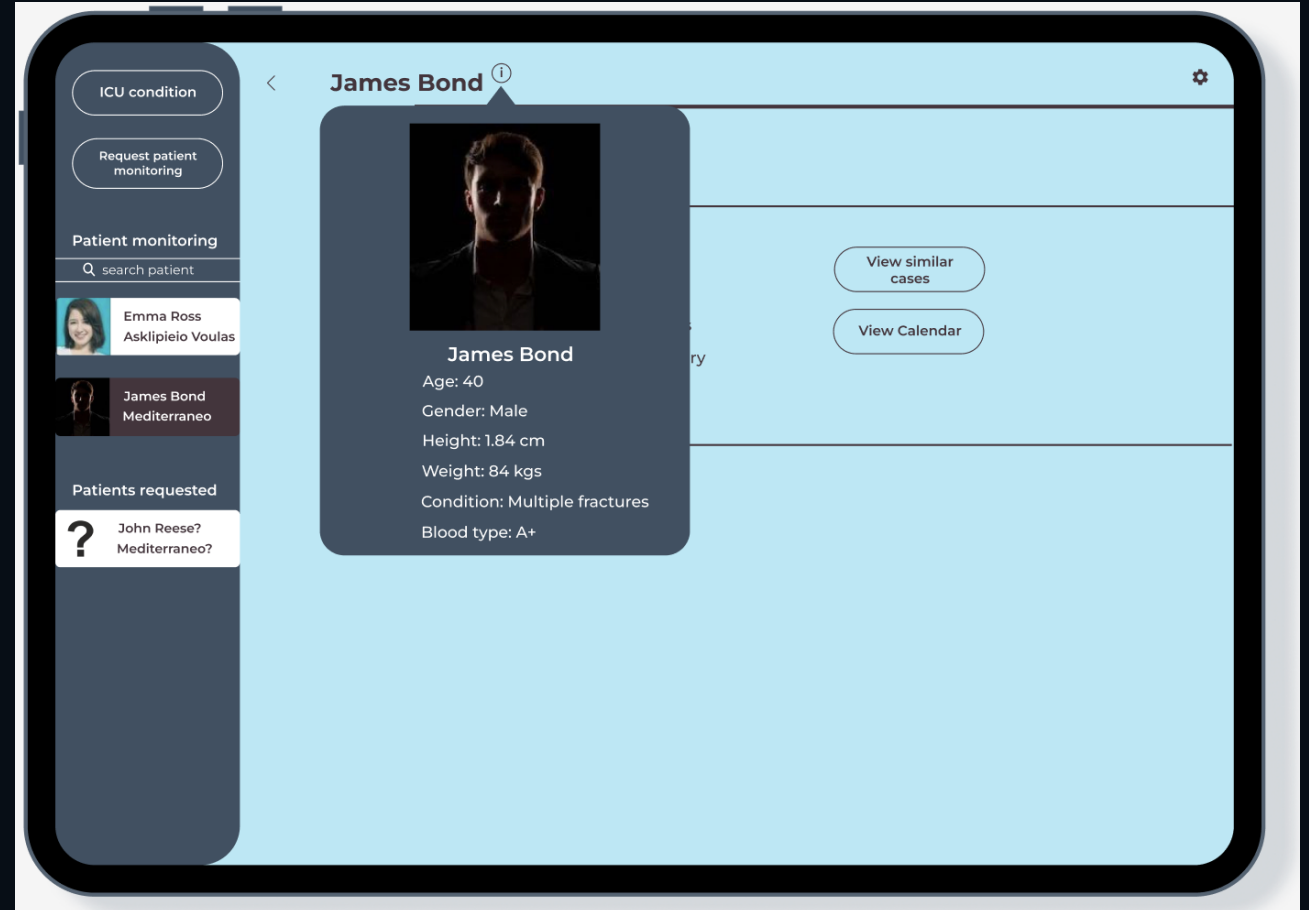
# Main Screen III

‘View calendar’ opens a new little window with colors visualizing what is expected to happen in each day. The color of the frame is the same as the main oval frame on the left.



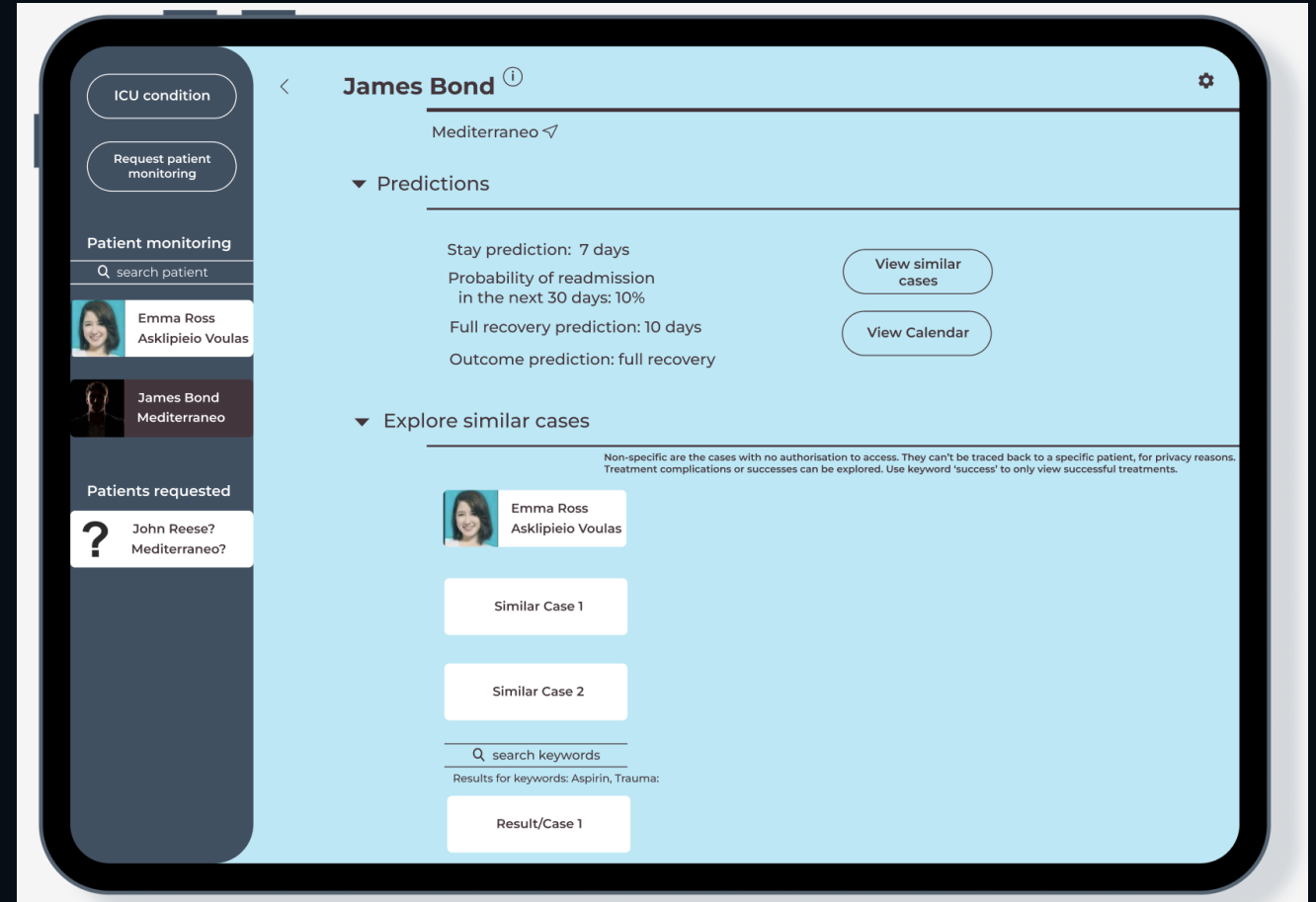
# Main Screen IV

Same with the 'i' icon next to the main/patient's title. It is used to display the picture in a bigger format, without disrupting the continuity and purpose of the main screen.



# Main Screen V

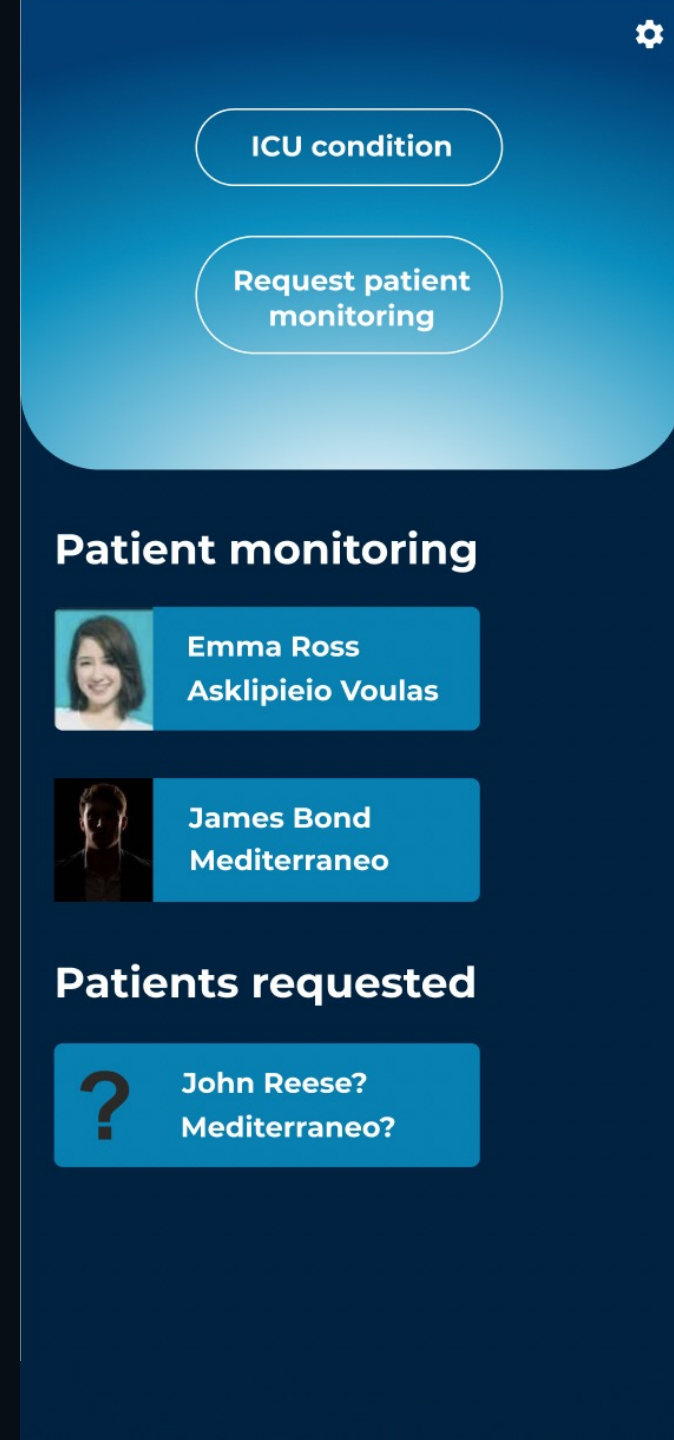
Finally, the similar cases are presented in the same way as in the main oval menu/section on the left. Note here that the cases that cannot be accessed by the doctor are referred to as similar cases and the data provided cannot be traced back to a specific patient.



# Phone Dark theme

# Main Screen

In the phone app, the main oval section of the tablet app is the main screen. So, anyone who wants to navigate through the main functionalities of the app must return to the main screen. The main buttons (ICU condition, Request patient monitoring) continue to be the same for the sake of continuity. Only the frames of the patients change color but not shape, because we are now in the dark them!





# Patient Screen

This is the patient screen. We have their picture, their name, their hospital and the patient and admission data, followed by the predictions about the patient. Pressing underlined text brings you the corresponding new screen. The navigation through the screens was carefully thought of, in order to make sense, group data logically and avoid many new screens.

Pressing 'view ICU data and graphs' brings a key functionality: presenting eICU data for telemedicine purposes or just being a point of reference for all data with statistics, diagrams and history. As it is a key feature, we dedicated a new screen for it.

Pressing one of the predictions shows the similar cases related to it, that serves as validation for the prediction.

Finally, exploring 'similar cases' shows cases that might be useful for the doctor about implications of certain diseases/medicine and allows the doctor to explore similar cases based on keywords.



**James Bond**

Mediterraneo ↗

[view ICU data and graphs](#)

Age: 40

Gender: Male

Height: 1.84 cm

Weight: 84 kgs

Condition: Multiple fractures

Day of admission: 31/3/22

Hour of admission: 12:30 pm

[Stay prediction](#): 7 days

[Probability of readmission  
in the next 30 days](#): 10%

[Full recovery prediction](#): 10 days

[Outcome prediction](#): full recovery

[Explore similar cases](#)

# Patient Screen



So, the predictions were grouped together with the 'exploration of similar cases', because they all lead to a similar window of older cases. The colors here and everywhere in the dark theme in the app were chosen not to be too depressing or dark, but rather remind of dusk (the light theme was chosen to remind the blue sky). Also, there is a playful tone in the background; the radiant gradient behind James Bond's picture.



## James Bond

Mediterraneo ↗

[view ICU data and graphs](#)

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in the next 30 days: 10%

Full recovery prediction: 10 days

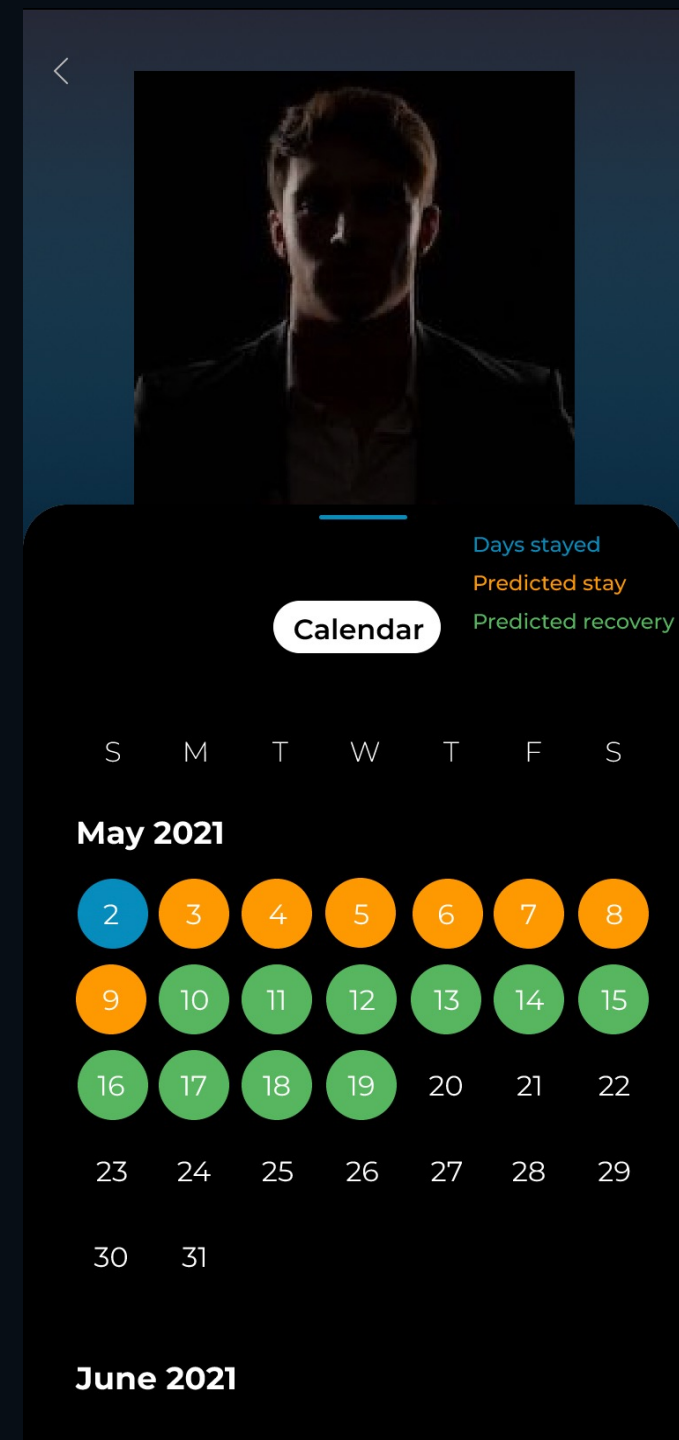
Outcome prediction: full recovery

[Explore similar cases](#)

# Patient Screen

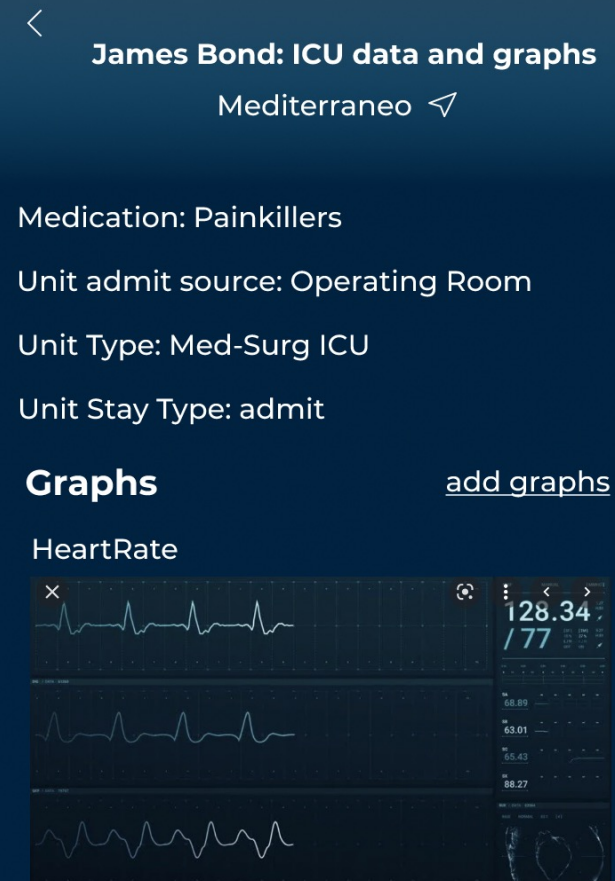


By swiping upwards someone can see the visualization of the predictions, showing how many days has the patient stayed, how many they are expected to stay and how many they will need to recover.



# eICU data screen

By pressing the 'view ICU data and graphs' button we get to the corresponding screen. Here, we can see key data, digitalizing patient's monitoring in this key screen. Graphs can be added or be hidden. They can also be selected to be maximized and minimized.



# Similar Cases data screen

The similar cases screen contains the prediction that is related to it. The cases are presented in the same way as in the main screen.



James Bond: ICU data and graphs

Mediterraneo ↗

Stay prediction: 7 days

Similar cases



**Emma Ross**

Tap to view details



# ICU condition screen

Choosing to see the ICU condition redirects to a page where someone must first select the hospital, they are working in. Here is evident our favorite technique of gradient radiant, for a playful tone.



Hospitals you work at



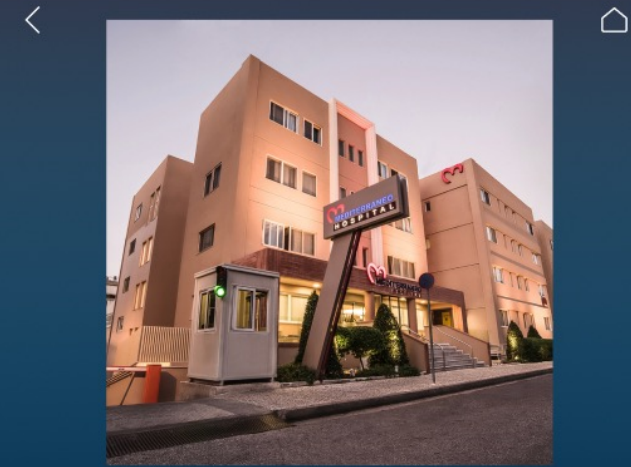
Asklipieio Voulas



Mediterraneo

# ICU condition screen II

Here we monitor the ICU beds, the superbugs and the equipment. The design methods have already been discussed in previous screens, check if you can spot them!



Mediterraneo ↗

[Map Directions](#)

ICU availability: 20/70

Possibility of ICU overload: 20%

Worst case scenario: full in 1 month

## Superbug cases

Superbug I: 1 cases

Superbug II: 2 cases

**The End**