



Telemedicine Platform to serve Patients in Rural Areas and Remote Islands

A project that shows the influence and importance of patient care



Challenge: The need for a greater availability of medical specialists in rural and remote areas

The project was performed as part of cross border mobility and the accessibility of the Health and Care services in collaboration with chosen remote patient monitor (RPM) providers. The main goal of the project has been to provide a modern tool to interchange and visualization of vital parameters from locations where medical specialists are not able to visit and assist chronic or occasional patients. Vitaly health portal provides to medical experts the ability to examine remotely-collected patient data and to provide remote consultation on how to treat the patient. The telemedicine solution brings the possibility for patient data to be reviewed from broader range of medical specialists, thus allowing instant and cost-effective treatment.


Project provided in the collaboration with Croatian Institute of Telemedicine introduces the use of modern RPM devices to assure specialistic medical treatment in rural areas or islands where it is impossible to access standard diagnostics equipment due to either unavailability of specialist services or weather conditions which prevents patients to visit hospital on mainland.

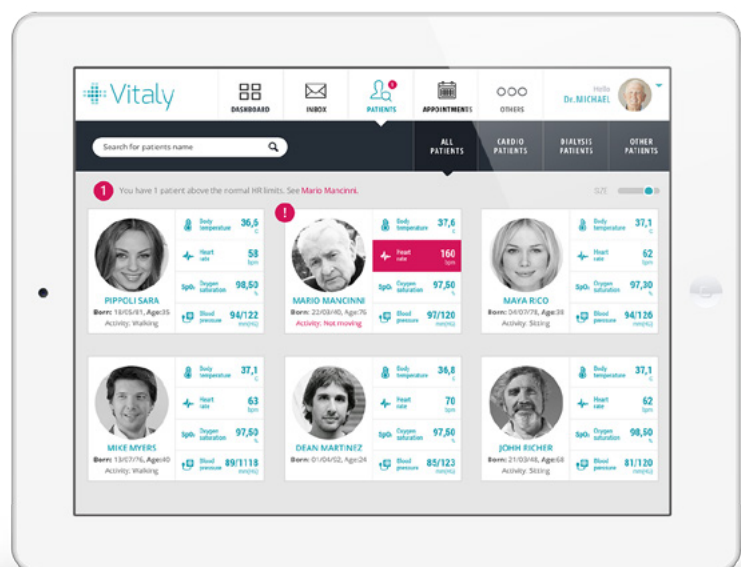
Make the specialist closer to the patient

Modern telecommunication infrastructure and ability of medical devices allows specialists to be virtually nearby the patient even when there is no possibility to visit and review patient physically. By electronic mean of communication the data of patient is transferred smoothly in a near to real time without a need to be retyped, thus avoiding unnecessary human mistakes.

Six types of diagnostic devices were chosen to be integrated within the project coordinated by Croatian institute of Telemedicine:

- Blood Pressure Monitor,
- Oximeter,
- ECG,


20,000,000
USERS



BENEFITS

- **Maximum flexibility**
 - **Telemedicine reading of vital parameter data**
 - **Fast and reliable reporting**
 - **Mobile application**
 - **Responsive user interface of the portal**
 - **Customization support**
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- Body Thermometer,
- PV&INR and
- Glucose monitoring Device.

By the mean of Bluetooth, communication devices are connected to Android mobile application, which allows data to be instantly transported over TCP/IP protocol to be at disposal to specific specialist or group of specialists.

Vitaly health portal responsive user interface allows specialists to review the data virtually from any modern device used by the doctor on duty. Combined with modern video and teleconferencing solutions, it is even possible to establish consultation boards that enable specialist discussions between different experts.

Who are the users of the solution?

The everyday users of the solution are:

- Medical staff at primary level, reviewing the citizens of the Republic of Croatia and tourists coming from other countries that are visiting Croatia.
- Medical specialists and experts reviewing vital parameter results provided by devices over electronic way of communication accessible through portal.

SOLUTION

- **Certified medical devices**
 - **Vitaly Portal Interoperability**
 - **Modular architecture**
 - **Secure access to clinical data**
 - **Standard (IHE & HL7) exchange of medical data**
 - **Authentication, authorization and user management**
 - **Accessibility• Usability and portability**
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Fast and accurate reporting

Measurement data are available instantly without unnecessary retying and waiting for data to be entered manually into the system. Telemedicine capable solution also enables us to avoid common mistakes made by first level personnel typing/retyping measurement results.





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