Holo4Med

MediHelp - Telemedecine platform

General

- **Holo4Med was established by the TenderHut group to implement the TenderHut (one of the largest technological capital groups in Poland – https://tenderhut.com/en) expertise in the medical field.**

- **Strong interest in innovative telemedical solutions allowed Holo4Med to strike a prestigious contract for telemedical platform early on.**

![Holo4Med logo]

Holo4Med

MediXR

Mixed Reality Solution

MediCR

Managing of Clinical Research

MediHelp
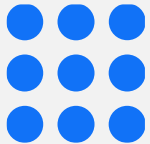
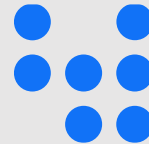Patients Monitoring Platform

MediLis

Laboratory Information System

MediHelp Suite – Main Goal

Patients with a milder course can be treated at home, remotely monitored with a pulse oximeter.This will reduce bed occupancy in hospitals.

A pulse oximeter is provided to each patient diagnosed with SARS-Cov-2 and with a condition requiring monitoring.

Patient monitoring is carried out in a self-service model, under the supervision of a doctor, using a mobile application integrated with the device.

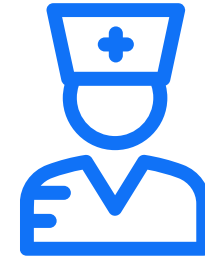# How it works

MediHelp Suite – complete solution

PATIENT

- Pulse oximeter + MediHelp mobile or web browser application.
- Measures pulse and saturation.
- The data is automatically sent to the monitoring centre.

MONITORING CENTRE

- Decides whether to pass information to a doctor or send an ambulance.

DOCTOR

- Uses mobile application for the doctor.
- Can contact the patient by phone and provide medical advice.
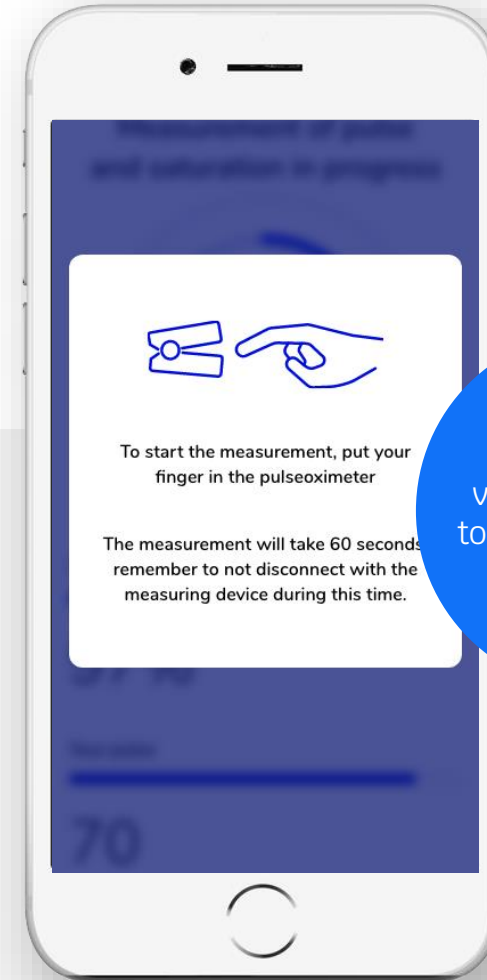
MediHelp Suite

Mobile application for the patient

ANDROID APP ON **Google** play

Download on the **App Store**

01

Widely available from official Apple and Google Play stores, for free, for quick download.

02

Instructions in the app - everything is understandable, no training is needed, everyone should be able to handle it.

To start the measurement, put your finger in the pulseoximeter

The measurement will take 60 seconds remember to not disconnect with the measuring device during this time.

70

Web browser version available too. No installation needed.

MediHelp Suite

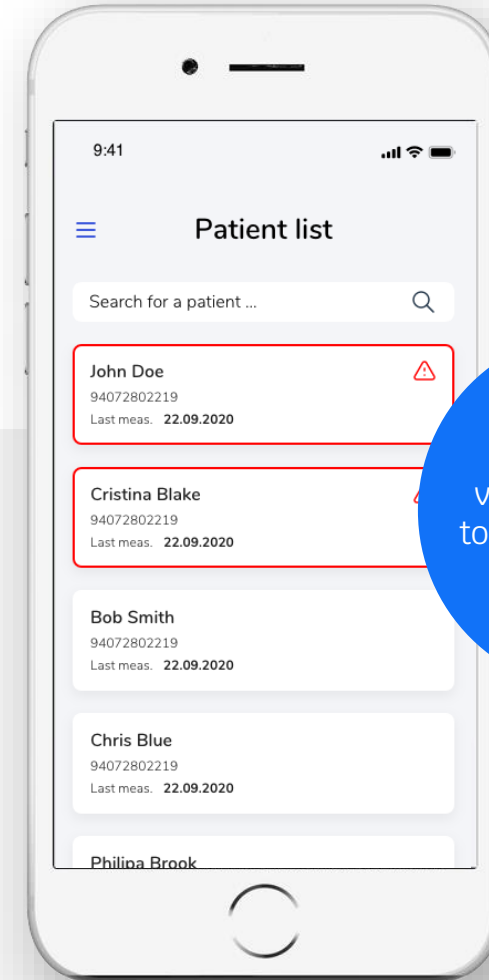## Mobile application for the doctor

01

Widely available from official Apple and Google Play stores, for free, for quick download.

02

The most important data at hand to give the doctor the opportunity to supervise many patients without much involvement.

Web browser version available too. No installation needed.

Azure Cognitive Services

- **Voice Bots to support older people**
- **Plan to extend voice recognitions services within MediHelp platform**
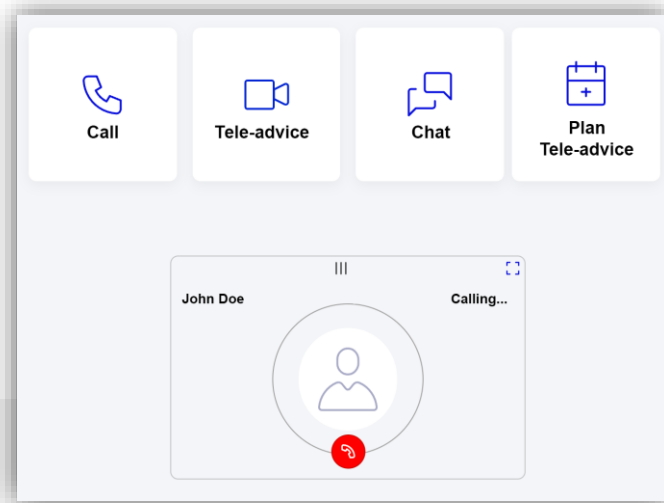
MediHelp Suite – New devices

The telemedicine platform for remote monitoring is expanded to include additional mobile devices – medical smart band, glucometer, pressure blood meter, e-stethoscope, ECG and others

Patient monitoring is carried out in a self-service model, under the supervision of a doctor, using a mobile application integrated with the device.

Solution based on Azure with Cognitive Services Azure Bot Services and ACS. We are ready to fast implementation, agile approach and flexibility.

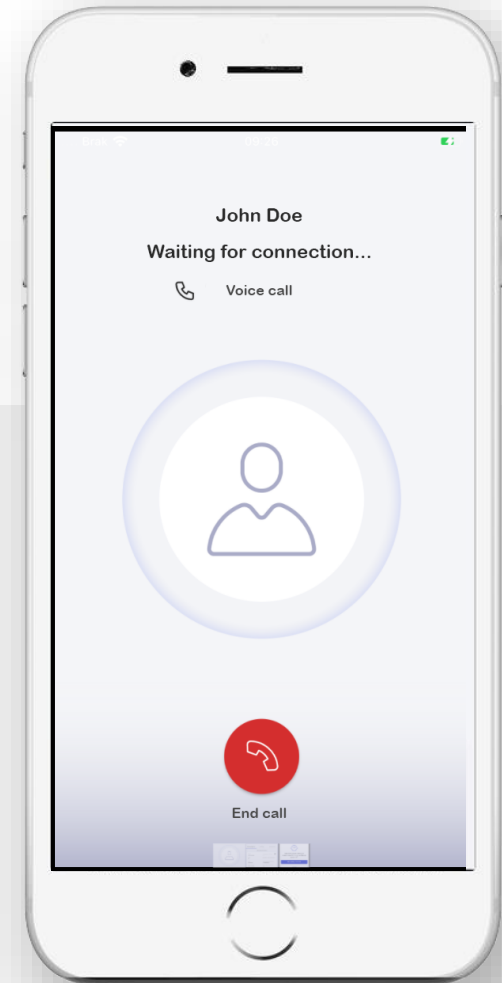# Telemedicine services based on ACS

01

ACS allows to make tele- and video- consultation through Doctor Web App. and Patient Mobile App.

02

Quickly and accurately transcribe audio to text in more than 85 languages and variants for deaf people

John Doe

Waiting for connection...

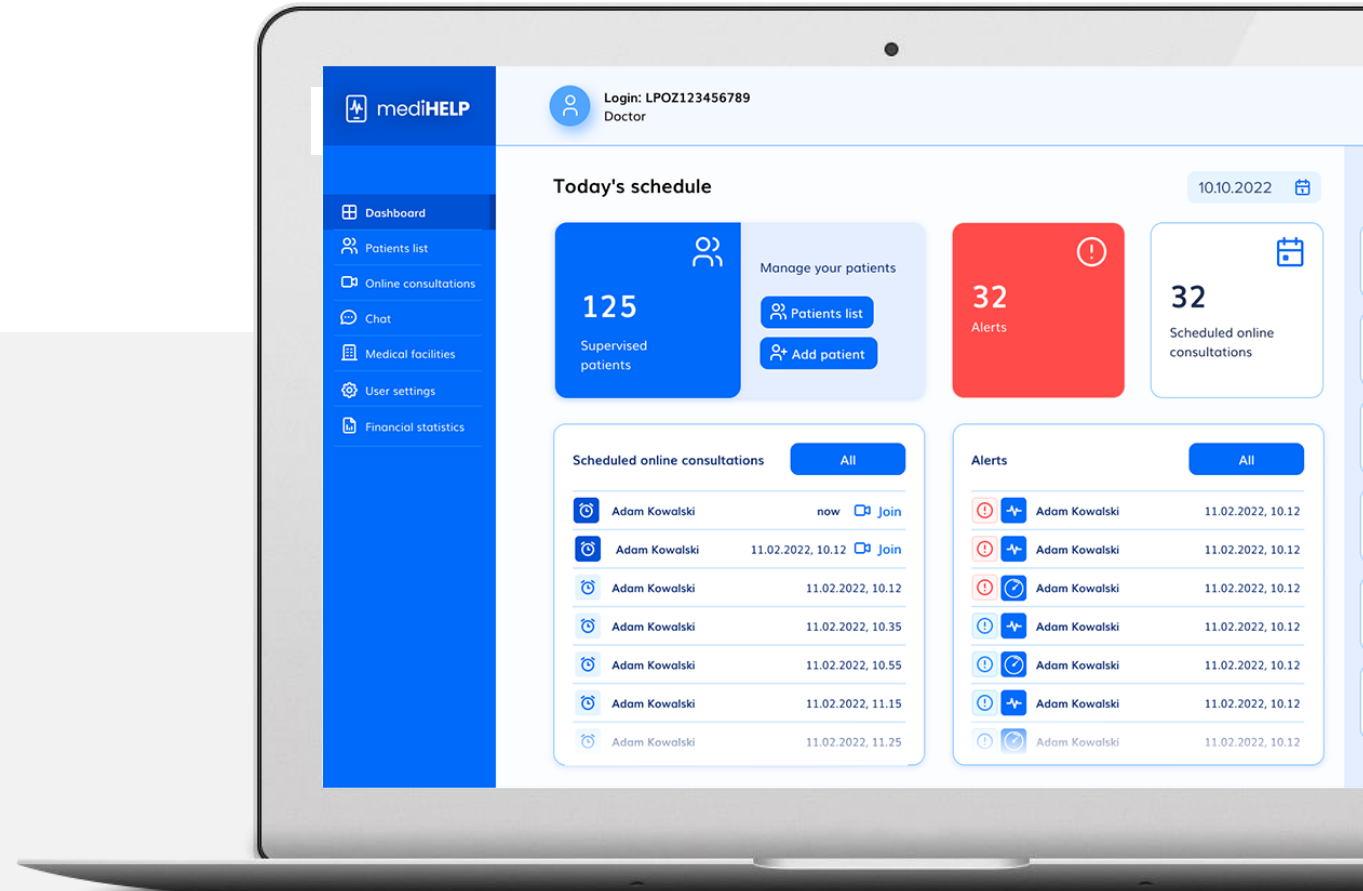Voice call

End call

MediHelp Suite

Central panel for the monitoring team

01

Available on any computer connected to the Internet as a web application supported by a web browser.

02

Data security, high speed, reliability and scalability - a solution based on Microsoft Azure Cloud.

MediHelp Suite targets

01

High risk patients with comorbidities.

02

Patients with more severe course, but still not requiring hospitalization.

03

Other patients, except for Covid-19 patients, to whom remote monitoring using a pulse oximeter would be helpful for the attending doctor (the solution will also be useful after the end of this pandemic).

Advanced predictive algorithm

Based on the analysis of data from the MediHelp Suite system, a complex algorithm can **predict situations of potential deterioration** of the patient's condition on the next day.

This allows you to prepare for possible hospitalization in advance and may save the patient's life.

The algorithm analyzes as many as several dozen factors in 5 risk groups.

It can also **intelligently modify its alert levels** based on the updated knowledge about the patient taking different types of drugs which may cause disturbing changes in the measurements.

Main features and benefits

FOR PARTNERS

- Easy to distribute - Quick implementation throughout the country.
- Customized for differents market
- and customer expectation.
- Manageable
- Unique advanced algorithm

FOR CUSTOMERS

- Time and cost-effective - Operating in a self-service model, where monitoring is performed by the patients themselves, supervised only remotely by a doctor.
- Easy to use - So that almost every patient with a smartphone would be able to handle it on their own.
- Scalable - Ready to monitor hundreds of thousands of patients.
- Reduction of beds occupancy.
- Better prediction of the pandemia situation.

MediHelp Suite is based on cutting edge solutions by

- A trusted cloud platform that is tested and ready to implement large-scale projects with the highest level of data security.

- Ease to manage and scale up if needed.

- Azure gives stronger and faster PaaS capabilities than many other solutions.

- MediHelp Suite uses innovative reporting tools of Power BI supported by AI and machine learning.

- AI solutions are implemented, among others, in the following areas:
  - Classifying patients into risk categories
  - Verify the correctness of the pulse oximeter test

Polish case in figures

Success case from Polish project following 12 months:

○

Over 30% of the patients infected with COVID use a monitoring system

△

Only less than 1% of the total number of monitored patients needed the medical intervention in the hospital

○

Around 99% of the total number of the monitored patients went through the illness at home without causing the costs of the hospitalisation. The number of the hospital beds was used in the optimized way for the patients who really needed it.

Statistics from the Polish project following 12 months:

Over 4,0 milion measurements have been generated from pulseoximeters

200,000 remote care services Consultants provided 200,000 mobile care services to patients included in the program.

MoH telemedicine platform still extended The platform is constantly extending – new devices added to the system – eg ECG, medical wristband, spirometer and others

Further Development of MediHelp

MediHelp Suite
– further development

MediHelp platform be extended for hospitals with MediXR Hospital Round Asistance Module

MediXR ENABLES PATIENTS REGISTRATION PROCESS

- ID scanning and processing
- Access to Hospital Information System

HOSPITAL ROUND ASSISTANCE

- Instant access to Hospital Information System
- Keyboard and voice input
- Access to PACS systems (Picture Archiving and Communication System).

Thank you!

Let's talk about the use of MediHelp in your country

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