



TECHNOLOGIES IN THE REHABILITATION PROCESS

Innovative platform for the development and adoption of reliable AI-based solutions for healthcare





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Al for the smart hospital of the future

IMPROVING TREATMENT WITH INNOVATIVE



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We have more in-patients than we can treat with rehabilitation devices. The number of physiotherapist is not sufficient to cover the need for treatment and recruitments is difficult as we are a hospital located in a remote area. (island)



A new service provided in a smart rehabilitation room, based on the integration of a home-automation system to monitor and manage the motor training in neurological patients.



The more autonomous patients go to the smart room by themselves and inserts their personal badge into the device. Their physiotherapist are notified on a dedicated app: Vimar View.



The patient carries out his therapies together with other patients, a physiotherapist supervises them. When he is finished he takes out his badge.

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The physiotherapist access the cloud user interface to see the resultss and monitor the progress of patients therapy.

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A badge reader, a presence detector and other enviromental sensors send informations to the hospital cloud and to **Vimar View app**.



While the patient works, his activities (exercise duration, actual work time, results ...) are recorded in the hospital cloud services.

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Recordes data are immediatly processed and made accessible in the hospital cloud to support clinical decisions.

RESULTS AND IMPROVEMENTS



Thanks to the monitoring toolsan data analysis, we can treat up to 3 patients at the same time. We use the same amount of resources and maintain the clinical benefit, s atisfying the demand for patients care.