

EVALUASALUD

DESCRIPTION OF THE TECHNOLOGY

A digital platform has been developed to improve the access to evaluate different health problems (metabolic, renal, cardiovascular, endocrine, etc.).

This innovative software allows the automatic generation of questionnaires or tests aimed to people grouped by common health problems (children from 0-6 years old, elderly, chronically ill, people with feeding problems, population affected by disasters or emergencies, etc.).

The collected data is entered to an advanced analysis system, and later, a report is issued with the diagnostic prediction of the health problem or its

evolution, with adapted technological solutions. In addition, it is a predictor of further evaluations according to the score obtained.

With the aim to avoid hospitalization due to the aggravation of the problem, this novel technological solution helps to prevent health problems of the population that requires assistance.

This system integrates two key elements:

- 1) Knowledge of health experts.
- 2) Experience in development of digital enabling technologies.

MARKET APPLICATION SECTORS

The technology developed can be applied in:

- Social-health sector.
- Management of medical emergencies.
- Diagnosis of individuals.

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

The main advantages of this innovative solution are listed below:

- It is a very flexible tool: it allows to evaluate both small groups of individuals and almost personalized home assistants, as well as emergencies in disaster situations.
- It allows to generate in an agile and automatic way different types of questionnaires addressed to groups of people with similar health problems.
- It incorporates a sectorial evaluation procedure with diagnostic prediction and personalized report emission.
- It brings technology closer to small groups of individuals and extends the scope of evaluation to other contexts -such as emergencies in disaster situations-.
- It integrates evaluation (data analysis and expert opinion) and, depending on the problems identified, almost personalized home assistants are developed.

CURRENT STATE OF DEVELOPMENT

The system is based on a set of software, hardware and health expertise services that use a digital platform with different types of interfaces to offer solutions through two differential elements:

1) A model of multi-platform applications (tablet and mobile device support) for Android and iOS, based on algorithms that integrate knowledge of experts in health. It allows to perform in an intuitive way surveys with

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different types of questions whose answers revert a score that will be diagnosed as "normal" or "range of severity of a health problem". It allows to work off-line and store the questionnaires to be processed later. This technology is designed to be used by professionals in charge of carrying health assessments of people.

2) A set of hardware adaptations using wearables, voice recognition assistants, adapted sensorization, and embedded monitoring and control systems.

As an example, this technology has been used to develop a home device that adapts to people with feeding problems that can lead to malnutrition or complications in their illness with hospital readmissions. A prototype is available for demonstration.

To ensure the proper functioning of predictive systems, this platform incorporates Artificial Intelligence technology

INTELLECTUAL PROPERTY RIGHTS

This invention is protected through the know-how of the Scientific Unit of Business Innovation ARS INNOVATIO of the University of Alicante.

COLABORATION SOUGHT

Companies interested in acquiring this technology for commercial exploitation are sought.

RELATED IMAGES



System workflow diagram

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