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- Plataforma Interdisciplinaria Ageing and Well

Being: <https://www.deusto.es/cs/Satellite/deustoresearch/en/home/interdisciplinary-research-platforms-1/ageing-and-wellbeing-1/more-news-0/deusto-develops-an-%E2%80%98app%E2%80%99-that-connects-us-to-the-doctor-to-prevent-heart-diseases/noticia>

Deusto University of Deusto

RESEARCH

Research with us · Research outputs · Research units · Interdisciplinary research · Social Impact · Transfer of knowledge

06 November 2019 Bilbao Campus

DEUSTO develops an 'app' that connects us to the doctor to prevent heart diseases

La 'app' que nos conecta al médico para prevenir enfermedades del corazón

Heart attacks, angina pectoris and other acute coronary ischemic syndromes are a public health problem. A third of the world's population dies as a result of this type of disease, and in the Spanish population it is the leading cause of death and hospitalisation.

The eVIDA research group of the University of Deusto is addressing this public health challenge through the eBIHOTZA project, funded by the Basque Government. Its main objective is to define patterns in the patients' signals in order to detect cardiovascular anomalies.

For this purpose, DEUSTO's research team has developed algorithms helping to prevent, establish a diagnosis and design a personalised treatment. The data, which are obtained through sensors, are subsequently classified using artificial intelligence techniques.

All this information is collected in a mobile application that doctors manage to diagnose and follow pathologies such as arrhythmias, myocardial infarctions, angina pectoris and heart failure.

The data measured by this project will be combined with the information of each patient's ecosystem, such as socio-cultural and economic data. This combination will allow the creation of a personalised predictive model that contributes to the early detection of risk episodes.

The app is being piloted with 120 patients from Bilbao (Spain) and Tijuana and Veracruz (Mexico). This improves the patient's quality of life and contributes to the reduction of hospitalization costs.

With the results of this project, the researchers expect to improve the patient's quality of life and to contribute to the reduction of hospitalisation costs. It is also hoped to improve digital inclusion and assistance to patients with specific needs from disadvantaged groups.

For more information, please consult this page.

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- Área Interdisciplinaria Health:

<https://www.deusto.es/cs/Satellite/deustoresearch/en/home/interdisciplinary-research-platforms-1/health/mas-noticias-18/deusto-develops-an-%E2%80%98app%E2%80%99-that-connects-us-to-the-doctor-to-prevent-heart-diseases/noticia>

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