CONFERENCE ABSTRACT

Implementation of digital solutions to provide personalised early detection and intervention to people with increased health and social risks
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Background/objective

Due to the aging of the population and advances in medical science, people with chronic diseases are living longer. European Healthcare Systems are struggling to cope with the cost burden of chronic diseases and its impact on their sustainability. Over the last decade, Healthcare Systems have increasingly recognised the potential of digital health solutions. Digital solutions play a growing role in achieving better diagnosis, treatment and management of citizens across the continuum care and prevention.
Gatekeeper project is an EU Horizon2020 research funding program which main objective is to create a digital platform that connects healthcare providers, businesses, entrepreneurs, and elderly citizens in order to originate an open, trust-based arena for matching ideas, technologies, user needs and processes, aimed at ensuring healthier independent lives for the ageing populations.

Methodology

Gatekeeper will demonstrate by scaling up, during 42 months, the deployment of innovative user-led solutions building on big data for personalised risk detection, advanced health monitoring and early interventions for people facing increased health and social risks. It will involve 40.000 elderly citizens from eight deployment sites across seven European countries: Spain, Germany, Greece, Italy, United Kingdom, Cyprus and Poland. The Basque Country (Osakidetza-Biocruces and Kronikgune) as deployment site will involve 11.300 patients with different risk levels (low, moderate and high complexity) to address the seven medical use cases of Gatekeeper:
•Lifestyle-related early detection and interventions
•COPD (Chronic Obstructive Pulmonary Disease)
 exacerbations management
•Diabetes: predictive modelling of glycaemic status
•Parkinson´s disease treatment DSS (Decision Support Systems)
•Predicting readmissions and decompensations in heart
 failure

- Primary and secondary stroke prevention
- Multi-chronic elderly patient management including polimedication

To achieve this challenge the Basque Country will select and deploy from the Gatekeeper platform a set of services and tools corresponding to the medical use cases to personalized early detection and interventions in order to test and demonstrate the benefits of Gatekeeper solutions.

Results

Gatekeeper will design and demonstrate the real-life effects of a digital ecosystem innovative platform for personalised treatments and therapies based on early detection and risk avoidance in a large scale pilot across eight European health references.