HEARTEN
Project ID: 643694
Funded under: H2020-EU.3.1. - SOCIETAL CHALLENGES - Health, demographic change and well-being

A co-operative mHEALTH environment targeting adherence and management of patients suffering from Heart Failure

From 2015-01-01 to 2018-03-31, closed project | HEARTEN Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 4 589 507,49</td>
<td>PHC-26-2014 - Self management of health and disease: citizen engagement and mHealth</td>
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<th>EU contribution:</th>
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<td>EUR 4 589 507</td>
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<th>Coordinated in:</th>
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<td>France</td>
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<th>Call for proposal:</th>
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<tr>
<td>H2020-PHC-2014-single-stage</td>
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<th>Funding scheme:</th>
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<td>RIA - Research and Innovation action</td>
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Objective

HEARTEN will design, develop and validate an ICT co-operative environment that will enable the HF patients to achieve sustainable behavior change regarding their adherence and compliance, and the ecosystem actors to be engaged and improve the patients’ HF management. HEARTEN targets all actors related to the management of patients suffering from HF, including healthcare professionals, caregivers (formal/informal), healthcare providers nutritionists, fitness experts and health insurance experts, towards developing a multi-stakeholder patient centered mHealth ecosystem. The target population of HEARTEN are patients with chronic and acute HF, either post-ischemic or with dilated cardiomyopathy, requiring occasionally re-admittance into hospitals. The idea is to develop biosensors that detect and quantify novel breath and saliva HF biomarkers, being identified through analytical techniques. These biomarkers reflect the health status of the patient and identify whether the patient adheres to the administered drugs. The breath biosensor will be integrated into the smartphone while the saliva biosensor will be integrated into the patient’s cup. Additional sensors for monitoring the ECG, the blood pressure and the physical activity constitute the sensor kit of the patient. The input data are complemented with nutrition information from the patient’s smartphone, weight monitoring through wireless weight scales as well as the patient’s profile and information directly added by the caregivers and the healthcare professionals. The multiparametric data are transmitted to the HEARTEN cloud architecture, where a knowledge management system analyses them and delivers critical information at hand. HF patients are empowered in self-management, by using their smartphones and tracking their medical vital signs, while the healthcare professionals and the caregivers can issue warnings, coordinate therapies, improve adherence and intervene before frailty incidences occur.

Related information

Report Summaries

Periodic Reporting for period 1 - HEARTEN (A co-operative mHEALTH environment targeting adherence and management of patients suffering from Heart Failure)
Coordinator

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EU contribution: EUR 565 000

Activity type: Higher or Secondary Education Establishments
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EU contribution: EUR 440 000

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Italy
EU contribution: EUR 0

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EU contribution: EUR 455 000

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

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