HEARTEN

Project ID: 643694
Funded under: H2020-EU.3.1.4. - Active ageing and self-management of health

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

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

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

UNIVERSITE LYON 1 CLAUDE BERNARD
BOULEVARD DU 11 NOVEMBRE 1918 NUM43
69622 VILLEURBANNE CEDEX
France

EU contribution: EUR 565 000

Activity type: Higher or Secondary Education Establishments

Contact the organisation

Participants

LYON INGENIERIE PROJETS
BD DU 11 NOVEMBRE 1918 43 L ATRIUM
69616 VILLEURBANNE
France

EU contribution: EUR 115 500

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

Contact the organisation

EVERIS SPAIN SL
AVENIDA MANOTERAS 52
28050 MADRID
Spain

EU contribution: EUR 183 553

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

Contact the organisation

APPART AE NEW TECHNOLOGIES COMPUTER AND TELECOMMUNICATIONS
14 CHALANDRIOU STREET AND SOULIOU 50
15342 AGIA PARASKEVI
Greece

EU contribution: EUR 420 250

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

Contact the organisation

FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS
N PLASTIRA STR 100
70013 HERAKLION
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EU contribution: EUR 518 750

Activity type: Research Organisations

Contact the organisation
AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS
CALLE SERRANO 117
28006 MADRID
Spain
EU contribution: EUR 406 063
See on map

Activity type: Research Organisations
Contact the organisation

UNIVERSITATSMEDEIZIN ROSTOCK
SCHILLINGALLEE 35
18055 ROSTOCK
Germany
EU contribution: EUR 293 750
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

UNIVERSITA DI PISA
LUNGARNO PACINOTTI 43/44
56126 PISA
Italy
EU contribution: EUR 548 516
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

SERVICIO ANDALUZ DE SALUD
AVENIDA DE LA CONSTITUCION 18
41071 SEVILLA
Spain
EU contribution: EUR 345 625
See on map

Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Contact the organisation

YOUR DATA SRL
Via Barbusi n.9 pt
09121 Cagliari
Italy
EU contribution: EUR 297 500
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
CAREDOME PATIENT SUPPORT AND HEALTHCARE SOLUTIONS PORTUGAL LDA  
AVENIDA 5 DE OUTUBRO 72 4B/C  
1050 059 LISBOA  
Portugal  
EU contribution: EUR 440 000  
See on map

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

SOFTWARE E SISTEMI AVANZATI S.P.A. (Participation ended)  
Via Cristoforo Colombo 112  
00147 Roma  
Italy  
EU contribution: EUR 0  
See on map

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

SESA NV SRL (Participation ended)  
VIA CRISTOFORO COLOMBO 112  
00147 ROMA  
Italy  
EU contribution: EUR 455 000  
See on map

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

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