EVOTION

Project ID: 727521
Funded under: H2020-EU.3.1.5. - Methods and data

EVidenced based management of hearing impairments: Public health pΟlicy making based on fusing big data analytics and simulaΤION.

From 2016-11-01 to 2019-10-31, ongoing project | EVOTION Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 5 421 901,25</td>
<td>SC1-PM-18-2016 - Big Data supporting Public Health policies</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<td>EUR 4 963 776,25</td>
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<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<tr>
<td>Denmark</td>
<td>RIA - Research and Innovation action</td>
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Objective

Hearing Loss (HL) is one of the most prevalent chronic diseases and the 5th cause of disability. HL increases the risk of cognitive decline, mental illness, and depression, and leads to social isolation, unemployment/early retirement, loss of income and work discrimination. The pre-eminent management strategy for HL is the provision of Hearing Aids (HAs), although their use is often problematic, costly and with poor overall benefits. The holistic management of HL requires appropriate public health policies for HL prevention, early diagnosis, long-term treatment and rehabilitation; detection and prevention of cognitive decline; protection from noise; and socioeconomic inclusion of HL patients. However, currently the evidential basis for forming such policies is limited. Holistic HL management policies require the analysis of heterogeneous data, including HA usage, noise (TTS) episodes, audiological, physiological, cognitive, clinical and medication, personal, behavioural, life style, occupational and environmental data.

EVOTION has access to big datasets of such data from five different organisations and will support their continuous update by real time data produced by sensors and HAs used by HL patients.

To utilise these data in forming holistic HL management policies, EVOTION aims to develop an integrated platform supporting: (a) the analysis of the above datasets to enable the identification of causal and other effects amongst them, (b) policy decision making focusing on the selection of effective interventions related to the holistic management of HL, based on the outcomes of (a) and the formulation of related public health policies, and (c) the specification and monitoring of such policies in a sustainable manner. To achieve this aim, EVOTION also brings together public health policy organisations, experts and authorities supporting the formation of the targeted policies and the validation of the EVOTION support for it.

Related information

Report Summaries

Periodic Reporting for period 1 - EVOTION (EVidenced based management of hearing impairments: Public health pΟlicy making based on fusing big data analytics and simulaΤION.)
## Coordinator

<table>
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<th>Name</th>
<th>Address</th>
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

## Participants

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<tr>
<th>Name</th>
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**Activity type:** Higher or Secondary Education Establishments

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**Activity type:** Research Organisations

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<th>Name</th>
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**Activity type:** Higher or Secondary Education Establishments

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<td>6 CHRISTOU LADA STR, 10561 ATHINA</td>
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