Fingerprinting the risk of dementia and likelihood of intervention response to facilitate prevention-related decision-making

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Name of Fellow

Solomon Alina

Institution
Funder

Academy of Finland

Contact information of fellow
Country

Finland

Title of project/programme

Fingerprinting the risk of dementia and likelihood of intervention response to facilitate prevention-related decision-making

Source of funding information

Academy of Finland

Total sum awarded (Euro)

€ 434,485

Start date of award

01/09/15

Total duration of award in years

5.0

The project/programme is most relevant to:

Alzheimer's disease & other dementias

Keywords

Dementia | Alzheimer disease | prevention | clinical trials | epidemiology | biomarkers | computer-

based risk profiling

Research Abstract
Dementia and Alzheimer disease prevention is a major public health priority. This project focuses on formulating tools for identifying high-risk individuals who may benefit from preventive interventions. Novel computer-based methods (Disease State Index, Disease State Fingerprint) will be used for analysis and visualization of a broad range of dementia-related factors and biomarkers. Specific aims include: 1) Risk index estimating an individual’s risk of cognitive impairment/dementia; 2) Intervention response index estimating an individual’s likelihood to respond to preventive interventions; 3) Planning a protocol for prevention-related decision-making. The project combines several large observational population-based studies (FINRISK, CAIDE, Vantaa 85+) and prevention trials (FINGER, MAPT, LipiDiDiet). It can produce comprehensive profiling tools that can facilitate personalization of preventive strategies in order to make them more effective.

Types:
Fellowships

Member States:
Finland

Diseases:
Alzheimer's disease & other dementias

Years:
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Database Categories:
N/A

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