

Fostering Personalized Dementia and Frailty Solutions

A rapidly aging European population poses significant challenges to both society and the economy. As individuals age, rates of chronic illness, mental health conditions, disabilities and frailty increase leading to substantial individual and societal costs.

Recent studies highlight a concerning rise in dementia prevalence across the EU, with evidence suggesting that dementia pathology begins years before clinical symptoms appear.

Addressing the gap

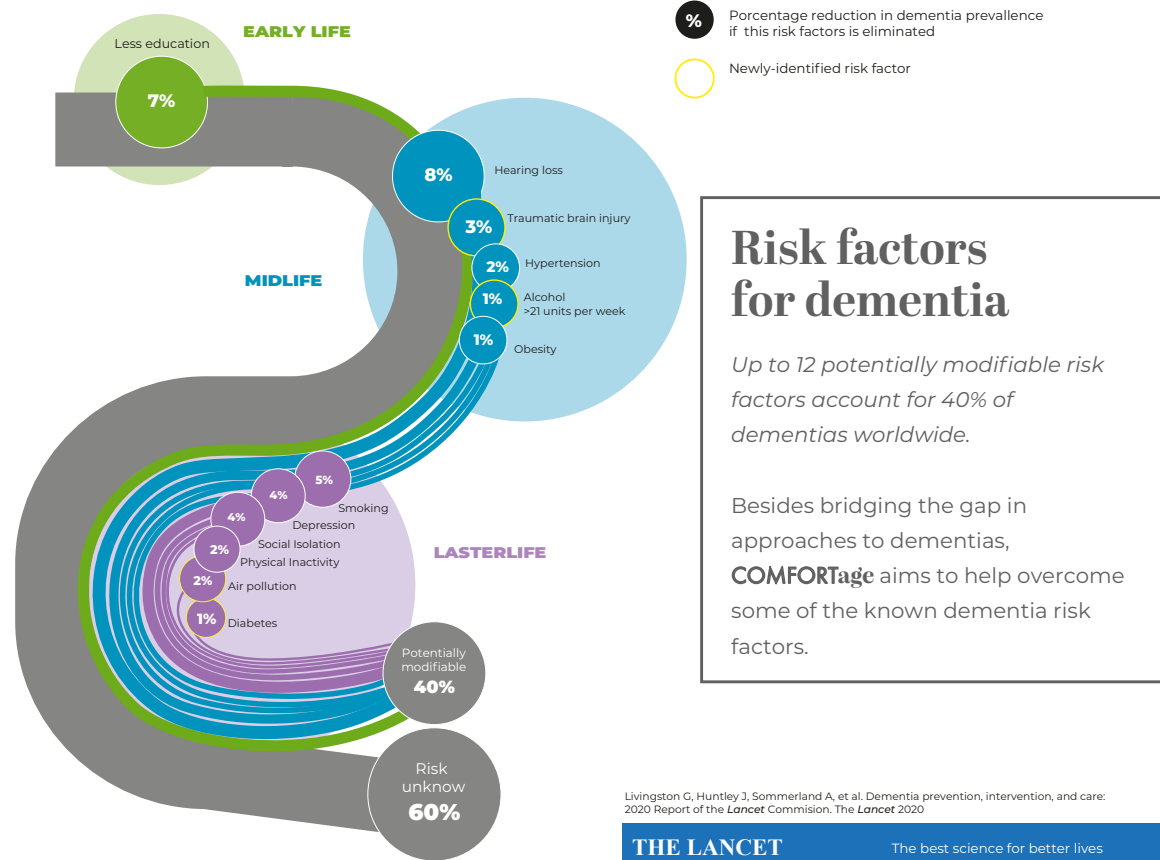
Timely diagnosis is crucial in dementia care. There is, however, a gap in integrated knowledge and healthcare data is fragmented. Both hinder comprehensive risk factor analysis and personalized interventions. Current healthcare approaches to dementia often adopt a generalized strategy, failing to account for individual differences in genetics, lifestyle, and environmental factors.

COMFORTage strives to drive meaningful change in dementia and frailty care across Europe through the development of holistic and integrated healthcare models tailored to age-related mental and physical diseases and disorders.

Key pillars

The key pillars of the COMFORTage strategy include:

- 1 DIGITAL HEALTH EUROPE**
Integrating and positioning the project into the Digital Health Europe (DHE)
- 2 EUROPEAN HEALTH DATA SPACE**
Integrating the project's Ageing-EHDS with the European HealthData Space
- 3 EUROPEAN COMMUNITIES**
Integrating COMFORTage outcomes and tools within European communities
- 4 STAKEHOLDERS**
Engaging with relevant stakeholders within the pilots and attracting stakeholders from their sectors
- 5 EXCELLENT SEARCH ENGINE OPTIMIZATION**
Disseminating technical and scientific results to appropriate recipients and adopters
- 6 ENGAGING DATA PROVIDERS SPACES AND MARKETING**
Engaging data providers, data spaces and data marketplaces towards expanding the COMFORTage tools and training marketplace
- 7 SHOWCASING BENEFITS**
Showcasing socioeconomic benefits of the digitally enabled community-based care plans
- 8 GENERAL PUBLIC**
Enhancing trust of the general public, healthcare organizations, healthcare and SMEs



What COMFORTage offers

COMFORTage is a four-year project funded through the European Union's Horizon Europe Programme involving 39 organisations from 12 countries. The project will conclude in December 2027, and it will be expected to involve:

- 3000 regional public authorities & care providers
- 2000 research institutes
- 4000 SMEs and start-ups
- 2000 community & patient groups

COMFORTage represents a pioneering effort to address the complex challenges of aging populations, dementia and frailty. By combining clinical expertise, technological innovation and community engagement,

COMFORTage aims to improve the quality of life for individuals while advancing the field of personalized healthcare intervention and prevention and establish a pan-European framework for community-based prevention and intervention strategies to facilitate effective lifestyle changes.

The innovative approach of COMFORTage is based on main six activities:

- Development of a Virtualized AI-Based Healthcare Platform (VHP) to centralize AI resources for risk factor analysis, early diagnosis, and personalized decision-making.
- Combination of person-centred & evidence based innovations and personalized solutions:
 - Medical/clinical innovative interventions.
 - AI (serious games, Patient Digital Twins, Virtual Assistive Technologies).
 - Digital Innovation Hubs (Smart Homes, robotics and Living Labs).
- Prevention aimed at younger age groups will reduce future dementia risk.
- Digital expertise among medical devices, analyses, etc.
- Personalized plans based on support healthy and active lives.
- Social innovations for promoting innovative viewpoints and co-creating new or improved solutions for people with dementia.

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 info@comfortage.eu