A first introduction of the eWALL technology in the living room of older adults.

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The objective of this study is to investigate the user experience, use, and potential effect (Activities of Daily Living (ADL) and quality of life) of eWALL for older adults suffering from chronic obstructive pulmonary disease (COPD) and age related...

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Other condition
Study type	Interventional

Summary

ID

NL-OMON43528

Source
ToetsingOnline

Brief title
eWALL

Condition

- Other condition

Synonym
COPD, lung disease

Health condition

COPD

Research involving
Human

Sponsors and support

Primary sponsor: Revalidatiecentrum Het Roessingh
Source(s) of monetary or material Support: Europese Unie (the 7th Framework programme)

Intervention

Keyword: COPD, older adults, online platform, technology

Outcome measures

Primary outcome

The primary study parameters are: user experience (TAM) and use (page hit

analyses) regarding the eWALL platform.

Secondary outcome

The secondairy study parameters are the potential effect (Instrumental

Activities of Daily Living (IADL) Scale and SF-36).

Study description

Background summary

Independent living of senior citizens is one of the main challenges linked to the ageing population, due to the impact on: (a) the life of the elderly people, (b) the national health systems, (c) the insurance companies, (d) the relatives and (e) the care-givers. According to Continua Alliance, lifestyle management can address 60-80% of all cases of unpredictable cases in the wellness and pre-illness conditions; thus minimizing the costs for the seniors and the National Health Systems. From this perspective the European eWALL project develops and validates an affordable, easy-to-install prefabricated wall that can be mounted on an existing wall and fade into the background all ICT technology needed to enable a number of services for the senior citizen. These services are grouped into the following categories: (a) risk management and home safety, (b) eHealth and (c) lifestyle management. The evaluation of eWALL will demonstrate the proof of concept, therefore a stage two evaluation based on the Stage approach to evolution of telemedicine is performed. The technology used in the second stage is stable and evaluation is focused on gaining an initial idea about the potential added value for clinical practice

and possible working mechanisms.

Study objective

The objective of this study is to investigate the user experience, use, and potential effect (Activities of Daily Living (ADL) and quality of life) of eWALL for older adults suffering from chronic obstructive pulmonary disease (COPD) and age related impairments (ARI).

Study design

The design will be based on an *ABC* design, a cross-sectional prospective cohort study, where progress from a baseline (A) will be monitored during and after a two months home-based intervention (B) and at a 2-month follow up (C).

Intervention

eWALL is a smart home system using a large touch-screen for interaction. The platform offers various health- and wellbeing services aimed at older adult with age related impairments and patients suffering from Chronic Obstructive Pulmonary Disease (COPD). For a period of 6 weeks the eWALL technology will be installed in the older adult home. After a training moment of 60 minutes the older adult is free to use the eWALL technology during these 6 weeks. The current user interface represents a virtual living room and is a composition of household objects.

Study burden and risks

The risks associated with participation are estimated to be low because the participants will be trained to use the platform and the content is based on evidence based medicine and was developed in consultation with various healthcare professionals.
Participants will be asked to fill in questionnaires and to invest time to learn to operate the eWALL platform. This burden and the potential risks outweigh the potential benefits attained using the platform.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age
Adults (18-64 years)
Elderly (65 years and older)

Inclusion criteria

Age related impairment
- 65 years of age and older;COPD
- Clinical diagnosis COPD
- Stable: i.e. no infection or exacerbation in the four weeks prior to inclusion

Exclusion criteria

- not able to read and speak Dutch language
- impaired hand function or disorders causing inability to use eWALL;In case of COPD:
- other diseases influencing bronchial symptoms or need of oxygen therapy

Study design

Design

Study type: Interventional

Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Prevention

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	20-04-2016
Enrollment:	20
Type:	Actual

Ethics review

Approved WMO

Date:	16-02-2016
Application type:	First submission
Review commission:	METC Twente (Enschede)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
CCMO	NL55929.044.15

Study results

Date completed:	01-11-2016
Actual enrolment:	21