

Wearables and challenging behaviour in dementia in a nursing home (geriatric psychiatry department)

Gepubliceerd: 15-03-2019 Laatste bijgewerkt: 15-05-2024

By measuring biomedical variables, such as movement, temperature, heart rate variability, blood volume pulse and skin conductance, by means of a wearable (wristband), stress-related parameters can be measured easily and continuously. It is...

Ethische beoordeling	Positief advies
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON19930

Bron

Nationaal Trial Register

Verkorte titel

Wearables & challenging behaviour in dementia

Aandoening

Dementia

Challenging behavior

BPSD

Ondersteuning

Primaire sponsor: Fontys Hogescholen

Overige ondersteuning: - Fontys Hogescholen

- SIA RAAK postdoc grant

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

the relationship between challenging behaviour ('golden standard') and biomedical variables ('index test') (sensitivity, positive predictive value)

Toelichting onderzoek

Achtergrond van het onderzoek

In nursing homes, dementia is often (up to 80%) accompanied by challenging behaviour, such as anxiety, agitation, apathy, delusions, aberrant motor behaviour, nighttime behaviour disturbances and disinhibition. Stress plays an important role in the cause of challenging behaviour. This negatively influences the quality of life of the specific resident and his environment. The cause of challenging behaviour can be treated psychosocially, by means of a thorough analysis of behaviour and context. However, behavioural analysis is very complex, among other things caused by the client's limited communicative capabilities. They cannot indicate themselves what they experience as being stressful. This hampers the identification of the stressors which cause challenging behaviour. By measuring biomedical variables, such as movement, temperature, heart rate variability, blood pressure and skin conductance, by means of a wearable (wristband), stress-related parameters can be measured easily and continuously.

The purpose of this research is to determine the usability of a wearable regarding the care of people with dementia showing challenging behaviour in a nursing home (geriatric psychiatry department). The relationship between biomedical data and behavioural observations will be investigated, as the conditions under which a wearable can be used in practice. How can biomedical data be visualized best, and how can information (e.g. training) be operationalized regarding the use/implementation in practice, considering multiple perspectives (e.g. health professionals and caregivers) and optimal guaranteeing privacy?

Doel van het onderzoek

By measuring biomedical variables, such as movement, temperature, heart rate variability, blood volume pulse and skin conductance, by means of a wearable (wristband), stress-related parameters can be measured easily and continuously. It is hypothesized that these values are related to challenging behaviours, and they can be used to predict an/or detect challenging behaviours.

Onderzoeksopzet

Onderzoeksproduct en/of interventie

none

Contactpersonen

Publiek

Fontys Hogescholen
Manon Peeters

06-53318835

Wetenschappelijk

Fontys Hogescholen
Manon Peeters

06-53318835

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Subjects can participate when they are:

- diagnosed with dementia
- resident of a geriatric psychiatry department in a nursing home
- show challenging behaviour (established by involved health care professionals): anxiety, agitation, aberrant motor behaviour and/or disinhibition

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Subjects are excluded in case of circumstances which cause an unrepresentative picture of the situation (e.g. in the case of an infection)

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-06-2019
Aantal proefpersonen:	10
Type:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Positief advies	
Datum:	15-03-2019
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 48071
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL7604
CCMO	NL67835.015.19
OMON	NL-OMON48071

Resultaten