Computer based cognitive flexibility training after stroke

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Main: We expect that cognitive flexibility training will result in a larger improvement in objective executive functioning compared with those who receive mock training or those who are in the waiting list group. Secondary: It is predicted that...

Ethische beoordeling	Positief advies
Status	Werving gestopt
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON22908

Bron
NTR

Verkorte titel
Training Project Amsterdam Seniors and Stroke (TAPASS)

Aandoening

Stroke patients

Ondersteuning

Primaire sponsor: University of Amsterdam
Overige ondersteuning: National Initiative Brain & Cognition, Netherlands Organization for Scientific Research (NWO).
University of Amsterdam, department of Brain & Cognition

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Executive functioning as measured by neuropsychological tasks (category and letter fluency, Tower of London, D-Kefs TMT number-letter switching, Wechsler Adult Intelligence Scale Letter-Number Sequencing).
The groups will be compared immediately before training and immediately after training.

Toelichting onderzoek

Doel van het onderzoek

Main: We expect that cognitive flexibility training will result in a larger improvement in objective executive functioning compared with those who receive mock training or those who are in the waiting list group.
Secondary: It is predicted that cognitive flexibility training will be more effective in stroke patients compared with healthy adults and more effective in the post-acute phase than in the chronic phase post-stroke. Moreover, we expect that cognitive improvement will be related to changes in brain activity. In particular, we expect that resting-state brain activity of stroke patients who receive cognitive flexibility training will converge more to “normal” than of those who did not receive this training.
Explorative: We will explore which lesion characteristics (e.g. type of stroke, size of lesion, brain regions), and other variables (e.g. IQ, age, comorbidities, cognitive flexibility at baseline) predict good outcome.

Onderzoeksopzet

The groups will be compared immediately before training, after 6 weeks of training, immediately after, and 4 weeks after training.

Onderzoeksproduct en/of interventie

Online cognitive flexibility training, online mock training (active control), or waiting list. The training duration is 12 weeks, five times per week for 30 minutes per session.
The cognitive flexibility training includes tasks that train attention, reasoning, and working memory. The participants will frequently switch between these tasks to assure that cognitive flexibility is needed. The mock training consists of tasks that do not train cognitive functioning and no frequent switches between tasks.

Uva.braingymmer.com is used for both training groups.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Key inclusion criteria: 1) Suffered from stroke and referred to rehabilitation; 2) Presence of cognitive dysfunction due to stroke; 3) Age between 30 and 80 years; 4) Daily access to computer with internet connection and able to use mouse; 5) Informed consent for study participation.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Key exclusion criteria: 1) Any disease other than stroke which results in severe cognitive impairments 2) Severe psychological, psychiatric, or somatic comorbidity which could strongly influence the performance on the neuropsychological assessment and training possibilities 3) Mentally (TICS score < 26) and physically (medically unstable) not fit enough to complete training protocol. 4) Aphasia, neglect, paresis or paralysis of the preferred hand, colorblindness, invalidating vision or hearing problems, or severe computer fear.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blindering:	Dubbelblind
Controle:	Geneesmiddel

Deelname

Nederland

Status:	Werving gestopt
(Verwachte) startdatum:	01-09-2013
Aantal proefpersonen:	120
Type:	Werkelijke startdatum

Ethische beoordeling

Positief advies

Datum:	22-05-2015
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 40530
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL5028
NTR-old	NTR5174
CCMO	NL44685.029.13
OMON	NL-OMON40530

Resultaten