tDCS and aphasia

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We expect that tDCS will enhance speed of language recovery, resulting in improved communication, quality of life and participation - associated with decreased rehabilitation consumption and cost reduction.

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

Samenvatting

ID

NL-OMON27213

Bron
Nationaal Trial Register

Verkorte titel
TEA

Aandoening

We will study participants with aphasia, an acquired language disorder caused by stroke.
/
De participanten van het onderzoek hebben afasie, een niet-aangeboren taalstoornis die door een beroerte (CVA) is ontstaan.

Ondersteuning

Primaire sponsor: Erasmus University Medical Centre. Department: rehabilitation medicine and physiotherapy
Overige ondersteuning: Erasmus University Medical Centre, M-RACE

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

language functioning i.e. word finding (Boston naming test)

Toelichting onderzoek

Achtergrond van het onderzoek

In summary, we will study whether tDCS has an additional effect in the rehabilitation of aphasia. To investigate this, two groups will be studied: 1 group receives real current stimulation and 1 group receives no current stimulation (sham-tDCS).
The intervention (real tDCS or sham-tDCS)will be added to language therapy sessions. We hypothesise that real tDCS will lead to a significant improvement in language functioning, and that this group difference will also be there at 6 months follow-up.

Doel van het onderzoek

We expect that tDCS will enhance speed of language recovery, resulting in improved communication, quality of life and participation - associated with decreased rehabilitation consumption and cost reduction.

Onderzoeksopzet

5 timepoints for language tests&questionnaires:
- before intervention week 1
- after intervention week 1
- before intervention week 2
- after intervention week 2
- follow-up: 6 months

For the fMRI, there are 2 timepoints:
- before intervention week 1
- after intervention week 2

Onderzoeksproduct en/of interventie

The intervention is tDCS (Transcraniele Direct Current Stimulation). We will study whether tDCS has an additional effect in the rehabilitation of aphasia. To investigate this, two groups will be studied: 1 group receives real current stimulation and 1 group receives no current stimulation (sham-tDCS).

The intervention (real tDCS or sham-tDCS)will be added to language therapy sessions. Two seperate intervention weeks will be planned, in each week the participants will get 5 1-hoursessions of real tDCS or sham-tDCS+language therapy.

Contactpersonen

Publiek

Kamer MB.014 (afdeling Research & Development)
Westersingel 300
K. Spielmann
Rotterdam
The Netherlands
010 2412412

Wetenschappelijk

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Westersingel 300
K. Spielmann
Rotterdam
The Netherlands
010 2412412

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

-Aphasia after stroke
-Time post onset < 3 months
-Age 18-75 years
-Right handed
-Physical health sufficient to participate in intensive aphasia therapy

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

-Subarachnoïd Haemorrhage (SAH)
-Prior stroke resulting in aphasia
-Brain surgery in the past
-Epileptic activity in the past 12 months
-Excessive use of alcohol or drugs
-Insufficient level of Dutch premorbidly

-Premorbid (suspected) dementia
-Premorbid psychiatric disease affecting communication
-Severe non-linguistic cognitive disturbances impeding language therapy
-Pace maker
-Global aphasia (spontaneous speech 0 AND shortened Token Test < 9)
-Severe Wernicke’s aphasia (spontaneous speech 0-1 AND shortened Token Test <9)
-Residual aphasia (spontaneous speech 4-5 AND shortened Token Test > 28 AND Boston Naming Test > 150)

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Factorieel
Toewijzing:	Gerandomiseerd
Blindering:	Dubbelblind
Controle:	Placebo

Deelname

Nederland

Status:	Werving gestart
(Verwachte) startdatum:	01-11-2013
Aantal proefpersonen:	58
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum:	21-02-2014
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL4211
NTR-old	NTR4364
Ander register	METC : MEC-2013-147

Resultaten