POTENTIALcross

Gepubliceerd: 06-01-2015 Laatst bijgewerkt: 15-05-2024

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

Samenvatting

ID

NL-OMON27834

Bron
NTR

Verkorte titel
POTENTIALcross

Aandoening

Stroke, tDCS, standing balance, herseninfarct

Ondersteuning

Primaire sponsor: VU medical center
Overige ondersteuning: Hersenstichting

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Balance control parameters

Toelichting onderzoek

Achtergrond van het onderzoek

Postural instability, balance problems and subsequent falls are very common in patients with a stroke.Studies suggest that a positive, reproducible effect on motor learning may be achieved by simultaneous non-invasive transcranial direct current stimulation (tDCS) and motor training.Knowledge regarding the instantaneous effects of tDCS during single session PFT tasks is lacking in literature at the moment. In addition, non-invasive cerebellar brain stimulation has to date not been applied in stroke subjects. In this study, the effect of cerebellar tDCS during a balance tracking task will be studied in chronic stroke patients and healthy age matched subjects. Both posturographical and neurophysiological data will be collected.

Onderzoeksopzet

directly after stimulation

Onderzoeksproduct en/of interventie

Stroke patients and healthy age matched subjects will recive tDCS or sham tDCS on the cerebellum during a balance tracking task

Contactpersonen

Publiek

Postbus 7057, 1007 MB Amsterdam
Sarah Zandvliet
De boelelaan 1118 (PK-1Y162), 1081 HV Amsterdam
Amsterdam
The Netherlands
020-4444925

Wetenschappelijk

Postbus 7057, 1007 MB Amsterdam
Sarah Zandvliet
De boelelaan 1118 (PK-1Y162), 1081 HV Amsterdam
Amsterdam
The Netherlands
020-4444925

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1) a lower extremity deficit as determined by a score of < 12 points on the short physical performance battery (SPPB), 2) a first ever ischemic lesion in the territory of the MCA as verified by CT of MRI scan, 3) age >18, 4) written informed consent, 5) be able to stand for 30 seconds without support 6) normal vision or corrected to normal with an optical aid,7) able and sufficiently motivated to perform the required tests and interventions.
Healthy subjects participating in this study have to meet criteria 3, 4, 5, 6 and 7.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

The exclusion criteria are as follows:

1) Any metallic implants (pacemaker etc.) , 2) orthopedic limitations that interfere with the study, 3) not being able to communicate, 3) successful thrombolysis treatment, 4) Cranial bone defects, 5) history of epileptic seizures, 6) diagnoses bipolar or psychiatric disorder 7) signs of depression (Hospital Anxiety and Depression Scale, HADS, sub score D >7) (Zigmond and Snaith, 1983), 8) insufficient cognitive function (Mini Mental State Examination, MMSE < 19), 9) sensory impairments (prior to the ischemic lesion, in case of patients), 10) diagnosed diseases of the vestibular system,11) therapy focusing on balance improvement during the time period in which the measurements take place.
Potential healthy subjects for this study will be excluded in case of:
1) History of any disease, condition, event or use of medication that interferes with the study.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Cross-over
Toewijzing:	Gerandomiseerd
Blindering:	Enkelblind
Controle:	Placebo

Deelname

Nederland

Status:	Werving gestopt
(Verwachte) startdatum:	01-02-2015
Aantal proefpersonen:	20
Type:	Werkelijke startdatum

Ethische beoordeling

Positief advies

Datum:	06-01-2015
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 42313
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL4824
NTR-old	NTR4947
CCMO	NL48397.029.14
OMON	NL-OMON42313

Resultaten