Pilot-study into the effectiveness of neurofeedback in the treatment of major depressive disorder (MDD).

Gepubliceerd: 14-01-2009 Laatst bijgewerkt: 19-03-2025

Neurofeedback is effective in the treatment of major depressive disorder.

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

Samenvatting

ID

NL-OMON26159

Bron
Nationaal Trial Register

Verkorte titel
N/A

Aandoening

major depressive disorder, depression

Ondersteuning

Primaire sponsor: University Maastricht (UM), Department of Psychiatry and Neuropsychology
Overige ondersteuning: University Maastricht (UM), Department of Psychiatry and Neuropsychology

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

1. Hamilton depression rating scale (17-item);
2. Baseline frontal alpha-activity in resting EEG.

Toelichting onderzoek

Achtergrond van het onderzoek

It is claimed that neurofeedback (NF) is efficacious in the treatment of MDD. So far, no studies have systematically examined such claims. However, basic neurophysiological studies appear to support the premise of NF that depression is associated with frontal alpha-asymmetry in the resting EEG. Reduction of this FA is thought to be related to a decrease in depressive symptomatology. The aim of this pilot-study is to investigate the effectiveness of NF (delivered as a frontal asymmetry protocol) in MDD by (1) decreasing FA, and (2) reducing severity of depressive symptomatology.
In case of positive results in this pilot-study a larger scale RCT will be conducted.

Doel van het onderzoek

Neurofeedback is effective in the treatment of major depressive disorder.

Onderzoeksopzet

1. Premeasure; diagnosis and assessment of clinical variables (like severity of MDD);

2. Measurement of MDD severity before every NF session;

3. Assessment of clinical variables (like severity of MDD) upon completion of the intervention.

1. Premeasure: 6 days ESM;

2. Postmeasure: after 8 weeks of mindfulness training/time control: 6 days ESM;

3. Follow-ups are planned, but were not yet submitted to ethical committee;

4. Follow-up at 6 months;

5. Follow-up at 12 months.

Onderzoeksproduct en/of interventie

Neurofeedback will be administered based by means of frontal alpha-asymmetry (FA) feedback. Baseline resting-EEG signal will be analyzed and individual thresholds will be used

to provide real-time visual feedback in order to diminish FA. A maximum of 30 NF sessions will be delivered with a frequency of 3 sessions each week.

Contactpersonen

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. MMD as a primary axis-1 diagnosis according to criteria of the DSM-IV-TR;

2. Informed consent.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. History of braintrauma (commotio or contusio cerebri);

2. Current use of antipsychotics, moodstabilizers, benzodiazepines. the use of antidepressants is permitted if type and dosage are not changed during participation in the study;

3. Chronic MDD (>2 years duration of current episode);

4. Dysthymia;

5. Bipolar disorder;

6. Lefthandedness;

7. Severe (HDRS-17 > 25) episode of MDD which indicates prompt effective treatment;

8. Pregnancy;

9. Other psychiatric disorders other than co-morbid anxiety and personality disorders.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-04-2009
Aantal proefpersonen:	10
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum:	14-01-2009
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 33576
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL1551
NTR-old	NTR1629
CCMO	NL25291.068.08
ISRCTN	ISRCTN wordt niet meer aangevraagd
OMON	NL-OMON33576

Resultaten

Samenvatting resultaten
N/A