Transcranial Magnetic Stimulation in depression treatment

Published: 08-06-2010 Last updated: 06-05-2024

Finding out if adjustment of intensity and duration of rTMS stimulation will produce a more robust antidepressant effect.

Ethical review	Approved WMO
Status	Recruiting
Health condition type	Mood disorders and disturbances NEC
Study type	Interventional

Summary

ID

NL-OMON35230

Source ToetsingOnline

Brief title rTMS in depression

Condition

Mood disorders and disturbances NEC

Synonym

depression, major depressive disorder

Research involving Human

Sponsors and support

Primary sponsor: Sint Lucas Andreas Ziekenhuis Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: depression, parietal, rTMS, stimulation

1 - Transcranial Magnetic Stimulation in depression treatment 5-05-2025

Outcome measures

Primary outcome

1. Percentage of change from baseline on the Hamilton Depression Rating Scale

(HAMD, 17 items)

2. Percentage of patients with clinical response (= 50 % reduction in HAMD

score)

3. Percentage of patients with partial clinical response (= 30 % reduction in

HAMD score)

Secondary outcome

Emotion Recognition Task

Study description

Background summary

Schutter et al. (2008) found a partial clinical effect on major depression by stimulating the right parietal cortex with rTMS. It is supposed that adjustment of intensity and duration of stimulation will produce a more robust antidepressant effect.

Study objective

Finding out if adjustment of intensity and duration of rTMS stimulation will produce a more robust antidepressant effect.

Study design

Randomized double-blind placebo controlled. Patients in the placebo condition may, on request, receive real rTMS treatment after the follow up period.

Intervention

rTMS on the right parietal cortex 2 Hz with an inter-impuls interval of 0,5 sec. at 110 % of motor threshold 15 sessions of 20 minutes during a period of three weeks

Study burden and risks

Stimulation over the scalp with a magnetic coil is painless. There are no known side effects of rTMS stimulation other than a slight headache. Application of the proposed stimulation parameters has proven to be safe, and not to provoke epileptic seizures (lit. ...).

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

age from 18 yrs onward unipolar depressive disorder only the following medication is allowed: SSRI's, venlafaxine, mirtazapine, antihistamanics for sedation medication to be kept constant during the trial

Exclusion criteria

bipolar disorder, dysthymic disorder suicidality Use of beta-blockers, other antidepressants or psychotropic medication, thyroid hormone, benzodiazepines, anti-epileptics history of epilepsy or epileptic abnormalities on EEG intracranial metal, pacemaker schizophrenia, addiction, mental handicap, not speaking Dutch lefthandedness

Study design

Design

Study type:	Interventional	
Intervention model:	Parallel	
Allocation:	Randomized controlled trial	
Masking:	Double blinded (masking used)	
Control:	Placebo	
Primary purpose:	Treatment	

Recruitment

NL	
Recruitment status:	Recruiting
Start date (anticipated):	01-05-2011
Enrollment:	120
Туре:	Actual

Ethics review

Approved WMODate:08-06-2010Application type:First submissionReview commission:METC Amsterdam UMC

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register CCMO ID NL26903.029.09