ISRCTN13548185 https://doi.org/10.1186/ISRCTN13548185

# Repetitive transcranial magnetic stimulation in the treatment of depression

| Submission date | Recruitment status |
|---|---|
| 20/12/2005 | No longer recruiting |
| **Registration date** | **Overall study status** |
| 20/12/2005 | Completed |
| **Last Edited** | **Condition category** |
| 31/12/2021 | Mental and Behavioural Disorders |

[ ] Prospectively registered
[ ] Protocol
[ ] Statistical analysis plan
[X] Results
[ ] Individual participant data

**Plain English summary of protocol**
Not provided at time of registration

## Contact information

**Type(s)**
Scientific

**Contact name**
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**Contact details**
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## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**
NCT00220610

**Secondary identifying numbers**
NTR224; CCMO03.3741/SH/P03.1231L;

# Study information

### Scientific Title
Right parietal inhibition with repetitive transcranial magnetic stimulation (rTMS) in the treatment of depression

### Acronym
TMS

### Study objectives
Repetitive transcranial magnetic stimulation (rTMS) has a positive effect in the treatment of depression.

### Ethics approval required
Old ethics approval format

### Ethics approval(s)
Received from the local medical ethics committee

### Study design
Randomised, double-blind, placebo controlled, parallel group trial

### Primary study design
Interventional

### Secondary study design
Randomised controlled trial

### Study setting(s)
Hospital

### Study type(s)
Treatment

### Participant information sheet

### Health condition(s) or problem(s) studied
Depression

### Interventions
Repetitive transcranial magnetic stimulation daily on 10 consecutive weekdays (five sessions per week), during 20 minutes per session. During the rTMS session, the coil was centered flat over the right parietal cortex. Patients were followed-up for 12 weeks after the two weeks of rTMS (follow-up period) to measure depression with different rating scales.

### Intervention Type
Other

### Phase
Not Specified

### Primary outcome measure
Depression

### Secondary outcome measures
1. Changes in anxiety
2. Autonomic changes
3. Changes in the emotional attention, in the emotional memory and in the emotional recognition
4. Biochemical changes
5. Changes in the electroencephalogram (EEG)

### Overall study start date
01/05/2004

### Completion date
01/12/2006

## Eligibility

### Key inclusion criteria
1. In- and out-patients, aged between 16 and 65 years
2. Meet Diagnostic and Statistical Manual of Mental Disorders, fourth edition (DSM-IV) criteria for major depressive episode
3. Have a score of 25 or higher on the 10-item Montgomery Asberg Depression Rating Scale (MADRS)

### Participant type(s)
Patient

### Age group
Adult

### Sex
Both

### Target number of participants
40

### Total final enrolment
55

### Key exclusion criteria
1. A history of epilepsy or any other medical disorder that should preclude the administration of rTMS. Only selective serotonin reuptake inhibitors (SSRIs), mirtazapine and promethazine as psychotropic medication was accepted if the dosage of antidepressive medication had not been changed for 6 weeks, and if the dosage of promethazine had not been changed for 2 weeks prior to inclusion.
2. Antidepressive medication had to remain stable during the 14 weeks of the study
3. Schizophrenic disorder
4. A piece if metal in the brain

5. Pacemaker
6. Left-handed patients

### Date of first enrolment
01/05/2004

### Date of final enrolment
01/12/2006

## Locations

### Countries of recruitment
Netherlands

### Study participating centre
**St. Lucas Andreas Ziekenhuis**
Amsterdam
Netherlands
1016 AE

## Sponsor information

### Organisation
St. Lucas Andreas Hospital (Netherlands)

### Sponsor details
Department of Psychiatry
Jan Tooropstraat 164
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-
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### Sponsor type
Hospital/treatment centre

### Website
http://www.slaz.nl/

### ROR
https://ror.org/016jc2h42

# Funder(s)

### Funder type
Not defined

### Funder Name
Not provided at time of registration

# Results and Publications

### Publication and dissemination plan
Not provided at time of registration

### Intention to publish date

### Individual participant data (IPD) sharing plan
Not provided at time of registration

### IPD sharing plan summary
Not provided at time of registration

### Study outputs

| Output type | Details | Date created | Date added | Peer reviewed? | Patient-facing? |
|---|---|---|---|---|---|
| Results article | | 01/10/2004 | 31/12/2021 | Yes | No |