

Promotion of cerebral plasticity by mirror therapy - evaluation of a new therapy approach for neurological rehabilitation

Submission date 27/02/2006	Recruitment status No longer recruiting	☐ Prospectively registered
Registration date 22/03/2006	Overall study status Completed	☐ Protocol
Last Edited 26/06/2009	Condition category Nervous System Diseases	☐ Statistical analysis plan
		☒ Results
		☐ Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
0315

Study information

Scientific Title

Effect of mirror therapy early after stroke: a randomised, single-blinded, placebo-controlled trial

Study objectives

Patients after a first-ever, single stroke in the middle cerebral artery (MCA) area show a significantly better outcome when treated for six weeks with additional mirror training compared to six weeks of additional training with a direct view of their affected hand.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics Committee of the Physicians Chamber North Rhein (Arztekammer Nordrhein) (General Medical Council) approved on the 14th July 2004 (ref: 2004189)

Primary study design

Interventional

Study design

Randomised single-blinded placebo-controlled trial

Study type(s)

Quality of life

Health condition(s) or problem(s) studied

First-ever, single stroke in the MCA territory not more than eight weeks prior to study inclusion

Interventions

Additional occupational therapy for six weeks (30 minutes a day, 5 days a week) - mirror training versus training with a direct view of the affected hand

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Fugl Meyer (FM) score after six weeks of intervention

Key secondary outcome(s)

1. Action research arm test (ARAT) score after six weeks of intervention
2. Functional independence measure (FIM) score after six weeks of intervention

Completion date

31/08/2006

Eligibility**Key inclusion criteria**

1. First ever, single stroke in the MCA territory not more than eight weeks prior to study inclusion
2. Aged 30 to 80 years
3. Severe hemiparesis
4. Cardiovascular stability for participation at several therapy units a day
5. Communication level allowing obedience to therapy protocol
6. Written informed consent

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

1. Multiple strokes
2. Significant hemorrhagic imbibition
3. Prior hemicranectomy
4. Restricted mobility of the upper extremity by orthopedic, rheumatologic or other concomitant disease

Date of first enrolment

01/07/2004

Date of final enrolment

31/08/2006

Locations**Countries of recruitment**

Germany

Study participating centre

MEDIAN Klinik Berlin

Berlin

Germany

D-14089

Sponsor information

Organisation

Refonet (Germany)

ROR

<https://ror.org/04yeh2x21>

Funder(s)

Funder type

Industry

Funder Name

Refonet (Germany) (ref: 3015)

Results and Publications

Individual participant data (IPD) sharing plan

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	results	01/03/2009		Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Study website	Study website	11/11/2025	11/11/2025	No	Yes