Mirror therapy in patients with complex regional pain syndrome type one of the upper extremity: a randomised clinical trial

Prospectively registered
☐ Protocol
Statistical analysis plan
☐ Results
Individual participant data
Record updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Protocol serial number N/A

Study information

Scientific Title

Study objectives

Mirror therapy was introduced by Ramachandran in patient with phantom limb pain and is based on new knowledge about the plasticity of the brain. Recently, studies in patients with Complex Regional Pain Syndrome (CRPS) have suggested that exercising with the painful hand behind a mirror and watching a reflection of the normal hand will give the brain the illusion that the hand is now able to move normally.

In these controlled but undersized studies, positive effects were reported on pain, oedema and hand function. In the present single-blind randomised clinical trial, mirror therapy will be presented in three phases:

- 1. One week Recognition of Hand Laterality using pictures of left and right hands
- 2. One week of Imagined Hand Movements, and
- 3. Four weeks of mirror therapy

Hypothesis:

Mirror therapy in patients with Complex Regional Pain Syndrome type one (CRPS I) has a positive effect on pain, oedema, sensibility, hand function, Activities of Daily Living (ADL) and quality of life compared to standard treatment.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics approval received from the local medical ethics committee

Study design

Randomised, active controlled, parallel group, single blinded trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Complex regional pain syndrome type 1 (CRPS I)

Interventions

Mirror therapy versus standard treatment:

- 1. One week recognition of hand laterality using pictures of left and right hands
- 2. One week of imagined hand movements, and
- 3. Four weeks of mirror therapy

The control group will receive treatment following standard treatment guidelines.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Pain

Key secondary outcome(s))

- 1. Hand function
- 2. ADL
- 3. Oedema
- 4. Sensibility
- 5. Quality of life

Completion date

01/12/2007

Eligibility

Key inclusion criteria

Modified research diagnostic criteria for CRPS-1 based on Bruehl 1999.

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

Not Specified

Key exclusion criteria

- 1. Treatment for CRPS-I in another institution
- 2. Psychiatric problems
- 3. Lack of motivation

Date of first enrolment

01/12/2005

Date of final enrolment

01/12/2007

Locations

Countries of recruitment

Netherlands

Study participating centre Erasmus Medical Centre Rotterdam Netherlands 3000 CA

Sponsor information

Organisation

Erasmus Medical Centre (The Netherlands)

ROR

https://ror.org/018906e22

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

Erasmus Medical Centre (The Netherlands)

Funder Name

Medical Research Advisory Committee Erasmus (MRACE) (The Netherlands)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration