

# Treatment of Complex Regional Pain Syndrome Type I with Mirror Therapy.

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The hypothesis of this study is that mirror therapy stimulates cortical representation of the upper extremity. The functionality of the upper extremity will improve more than with only conservative therapy.

|                             |                       |
|-----------------------------|-----------------------|
| <b>Ethische beoordeling</b> | Positief advies       |
| <b>Status</b>               | Werving gestopt       |
| <b>Type aandoening</b>      | -                     |
| <b>Onderzoekstype</b>       | Interventie onderzoek |

## Samenvatting

### ID

NL-OMON25778

### Bron

Nationaal Trial Register

### Verkorte titel

Treatment of Complex Regional Pain Syndrome Type I with Mirror Therapy

### Aandoening

Complex Regional Pain Syndrome of the upper extremity.

### Ondersteuning

Primaire sponsor: -

Overige ondersteuning: -

### Onderzoeksproduct en/of interventie

### Uitkomstmaten

#### Primaire uitkomstmaten

Activity: Action Research Arm test.

# Toelichting onderzoek

## Achtergrond van het onderzoek

CRPS-I is characterized by pain, oedema and sympathetic dysfunction and is generally preceded by trauma.

The cause is however not known. We hypothesise that a central factor in the movement planning may play a role, which expresses as 'fear to move'.

In order to intervene, mirror therapy is applied in combination with the regular therapy. Mirror therapy is based on the principle that reflection of the healthy arm causes the illusion that the injured arm moves simultaneous and symmetrical with the healthy arm and thus stimulates the cortical representation of the injured arm.

In a randomised study of 20 acute CRPS-1 patients (based on the IASP-criteria), all patients receive regular physiotherapy and 10 subjects receive additional mirror therapy.

Primary outcome is arm function, quantified by the Action Research Arm Test (ARA). Secondary outcome parameters are pain (VAS), mobility (Range of Motion), grip strength (JAMAR), sensibility (monofilaments) and the Radbout Skills Questionair.

## Doel van het onderzoek

The hypothesis of this study is that mirror therapy stimulates cortical representation of the upper extremity. The functionality of the upper extremity will improve more than with only conservative therapy.

## Onderzoeksopzet

N/A

## Onderzoeksproduct en/of interventie

Mirror therapy.

# Contactpersonen

## Publiek

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## **Wetenschappelijk**

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## **Deelname eisen**

### **Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)**

1. Patients with CRPS I of one upper extremity.(following IASP-criteria);
2. It exists for less than 8 months;
3. Patient is over 18 years of age.

### **Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)**

1. Dysfunction of the other upper extremity;
2. Sympathectomy;
3. Little motivation;
4. Treatment for CRPS-I in an other institution simultaneous;
5. Psychiatric problems.

## Onderzoeksopzet

### Opzet

|                  |                        |
|------------------|------------------------|
| Type:            | Interventie onderzoek  |
| Onderzoeksmodel: | Parallel               |
| Toewijzing:      | Gerandomiseerd         |
| Blinding:        | Enkelblind             |
| Controle:        | Actieve controle groep |

### Deelname

|                         |                       |
|-------------------------|-----------------------|
| Nederland               |                       |
| Status:                 | Werving gestopt       |
| (Verwachte) startdatum: | 01-01-2005            |
| Aantal proefpersonen:   | 20                    |
| Type:                   | Werkelijke startdatum |

## Ethische beoordeling

|                 |                  |
|-----------------|------------------|
| Positief advies |                  |
| Datum:          | 09-09-2005       |
| Soort:          | Eerste indiening |

## Registraties

### Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

### Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

## In overige registers

### Register

NTR-new

NTR-old

Ander register

ISRCTN

### ID

NL260

NTR298

: N/A

ISRCTN97144266

## Resultaten

### Samenvatting resultaten

N/A