ISRCTN71968956 https://doi.org/10.1186/ISRCTN71968956

# Percutaneous sympathetic blockade in complex regional pain syndrome type 1: a prospective clinical investigation on predictors of sympatheticaly maintained pain

**Submission date**
07/06/2006

**Recruitment status**
No longer recruiting

**Registration date**
07/06/2006

**Overall study status**
Completed

**Last Edited**
02/05/2019

**Condition category**
Nervous System Diseases

[ ] 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**
Dr J. Geurts

**Contact details**
Academic Hospital Maastricht (AZM)
P.O. Box 5800
Maastricht
Netherlands
6202 AZ
+31 (0)43 3877673
Jgeurt@sane.azm.nl

## Additional identifiers

**Protocol serial number**
BSIK03016

## Study information

## Scientific Title
Percutaneous sympathetic blockade in complex regional pain syndrome type 1: a prospective clinical investigation on predictors of sympatheticaly maintained pain

## Acronym
SYMBLOC

## Study objectives
The cold phenotype of CRPS1 is associated with a better response to percutaneous sympathetic blockade as opposed to the warm type of CRPS1.

## Ethics approval required
Old ethics approval format

## Ethics approval(s)
Not provided at time of registration

## Study design
Non-randomized controlled trial

## Primary study design
Interventional

## Study type(s)
Treatment

## Health condition(s) or problem(s) studied
Complex regional pain syndrome type 1 (CRPS I) (Causalgia)

## Interventions
Upper extremity CRPS-1: percutaneous blockade of stellate ganglion at C7 with one single injection of bupivacaine 0.25%.

Lower extremity CRPS-1: percutaneous blockade of lumbar sympathetic chain at L3 with a single injection of bupivacaïne 0.25%.

## Intervention Type
Drug

## Phase
Not Specified

## Drug/device/biological/vaccine name(s)
Bupivacaine

## Primary outcome(s)
Pain relief in the first week after blockade as measured three times daily in a pain diary where, 0 = no pain and 10 = worst imaginable pain

## Key secondary outcome(s))

The following predictors of pain relief after sympathetic blockade will be measured:
1. Pain intensity on an NRS scale of 0 to 10
2. Subjective and objective skin temperature
3. Hyper- and hypo-esthesia
4. Allodynia
5. Hyper- and hypo-algesia
6. The presence of dystonia
7. Tremor and myoclonus

### Completion date
10/04/2008

## Eligibility

### Key inclusion criteria
Adult (18 years or more) male or female patients with CRPS1 as diagnosed by International Association for the Study of Pain (IASP) criteria, with a duration of 12 months or less with moderate to severe pain (mean numerical rating scale [NRS] of more than 4 in the previous week as measured three times daily in a pain diary where, 0 = no pain and 10 = worst imaginable pain) and one extremity involved.

### Participant type(s)
Patient

### Healthy volunteers allowed
No

### Age group
Adult

### Lower age limit
18 years

### Sex
All

### Total final enrolment
49

### Key exclusion criteria
1. Patients of less than 18 years of age
2. The existence of significant impairment of blood coagulation or the use of oral anticoagulant medication
3. Patients suffering from diabetic polyneuropathia
4. Patients who are unlikely to comply with study requirements
5. Pregnant women
6. CRPS1 with a duration of more than 12 months

### Date of first enrolment
10/04/2006

**Date of final enrolment**
10/04/2008

# Locations

**Countries of recruitment**
Netherlands

**Study participating centre**
**Academic Hospital Maastricht (AZM)**
Maastricht
Netherlands
6202 AZ

# Sponsor information

**Organisation**
Academic Hospital Maastricht (AZM) and Dutch Consortium for Research on Trauma Related Neuronal Dysfunction (TREND)

**ROR**
https://ror.org/02d9ce178

# Funder(s)

**Funder type**
Government

**Funder Name**
Ministry of Economic Affairs (BSIK03016)

**Alternative Name(s)**
Ministry of Economic Affairs, Netherlands Ministry of Economic Affairs, EZ

**Funding Body Type**
Government organisation

**Funding Body Subtype**
National government

**Location**

Netherlands

# 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 | 01/01/2012 | 02/05/2019 | Yes | No |