

# Vasodilators in cold type Complex Regional Pain Syndrome

<b>Submission date</b> 14/02/2006	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
<b>Registration date</b> 14/02/2006	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
<b>Last Edited</b> 08/09/2011	<b>Condition category</b> Musculoskeletal Diseases	<input type="checkbox"/> 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

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**

**Secondary identifying numbers**  
NTR571

# Study information

## Scientific Title

## Acronym

VasCoTyC study

## Study objectives

Nitric oxide dependent and independent vasodilation in patients with disused, cold type CRPS, will regenerate blood tissue distribution and consequently improve mobility and quality of life factors.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Not provided at time of registration

## Study design

Randomised controlled trial

## Primary study design

Interventional

## Secondary study design

Randomised controlled trial

## Study setting(s)

Not specified

## Study type(s)

Not Specified

## Participant information sheet

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

Cold type complex regional pain syndrome (CRPS)

## Interventions

Subjects are assigned to receive either 1 g isosorbide dinitrate (ISDN) ointment 1% or placebo 4 times daily (groups 1 and 2) or 1 tablet of 10 mg tadalafil or placebo daily (groups 3 and 4). The treatment period will be 10 weeks.

## Intervention Type

Drug

## Phase

Not Specified

**Drug/device/biological/vaccine name(s)**

isosorbide dinitrate (ISDN), tadalafil

**Primary outcome measure**

Tissue blood distribution (thermography and Doppler flow).

**Secondary outcome measures**

Pain, mobility and quality of life.

**Overall study start date**

01/02/2006

**Completion date**

31/12/2007

**Eligibility****Key inclusion criteria**

1. Men and women between 18 and 65 years
2. Established diagnosis of CRPS-1 according to the Bruehl/Budapest criteria

**Participant type(s)**

Patient

**Age group**

Adult

**Lower age limit**

18 Years

**Sex**

Both

**Target number of participants**

76

**Key exclusion criteria**

1. Coronary atherosclerosis or cerebral sclerosis
2. Recent heart infarction
3. Increased intracranial pressure
4. Severe hypotension
5. Myocardium insufficiency
6. Damage of the central nervous system
7. Contraindication of nitrates
8. Inflammation of joints
9. Use of corticosteroids or immunosuppressives
10. Unable to fill in questionnaires

**Date of first enrolment**

01/02/2006

**Date of final enrolment**

31/12/2007

## **Locations**

**Countries of recruitment**

Netherlands

**Study participating centre**

**Erasmus Medical Center**

Rotterdam

Netherlands

3000 CA

## **Sponsor information**

**Organisation**

Erasmus Medical Center (The Netherlands)

**Sponsor details**

Dr Molewaterplein 40/50

Rotterdam

Netherlands

3000 CA

**Sponsor type**

Not defined

**ROR**

<https://ror.org/018906e22>

## **Funder(s)**

**Funder type**

Government

**Funder Name**

The Reflex Sympathetic Dystrophy Syndrome Association (RSDSA, USA), Eli Lilly, Ministry of Economic Affairs

# Results and Publications

## Publication and dissemination plan

Not provided at time of registration

## Intention to publish date

## 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?
<a href="#">Results article</a>	results	20/10/2008		Yes	No