An open prospective randomized longterm effectiveness study, comparing best medical practice with or without adjunctive spinal cord stimulation in patients with chronic diabetic neuropathic pain

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What is the long-term clinical benefit of best medical practice with and without adjunctive SCS Therapy in patients with chronic diabetic neuropathic pain?

Ethical review Approved WMO **Status** Recruitment stopped

Health condition type Glucose metabolism disorders (incl diabetes mellitus)

Study type Interventional

Summary

ID

NL-OMON38404

Source

ToetsingOnline

Brief title

SCS-001

Condition

- Glucose metabolism disorders (incl diabetes mellitus)
- Peripheral neuropathies

Synonym

chronic neuropatic pain in patients with diabetes

Research involving

Human

Sponsors and support

Primary sponsor: St. Jude Medical

Source(s) of monetary or material Support: Stichting the Neurobionics Foundation

Intervention

Keyword: chronic pain, diabetes, neuropathy, spinal cord stimulation (SCS)

Outcome measures

Primary outcome

To demonstrate superiority over time in treatment of pain of best medical

practice with adjunctive SCS Therapy compared to best medical practice without

SCS Therapy in patients with chronic diabetic neuropathic pain as measured by

VAS score.

Secondary outcome

To evaluate the efficacy over time of best medical practice with adjunctive SCS

Therapy compared to best medical practice without SCS Therapy in patients with

chronic diabetic neuropathic pain as measured by:

• Response rates (greater than or equal to 50% reduction in pain

intensity) at all visits.

• Percent of patients that are pain free (>75% reduction in pain intensity) at

all visits.

Mean and median percent change in pain intensity at all visits.

Pain free time during day and night.

To compare the effects over time of best medical practice with adjunctive SCS

Therapy compared to best medical practice without SCS Therapy on the following health outcome measures:

- McGill Pain Questionnaire
- EuroQoL 5D.
- Changes in pain medication.
- Compliance rates.

To evaluate over time the safety and tolerability of best medical practice with adjunctive SCS Therapy using information on treatment emergent adverse events, device complications, and premature study withdrawal.

Study description

Background summary

Spinal cord stimulation (SCS) is an established treatment for patients with chronic intractable pain. Few studies to date have concentrated on the use of SCS in peripheral neuropathy. Most studies involved sources of peripheral neuropathic pain of mixed etiology, and therefore do not possess adequate descriptions of the effectiveness of SCS for diabetic peripheral neuropathy specifically. Recently, De Vos and co-workers carried out an SCS efficacy study in eleven diabetic patients with chronic pain who did not respond to conventional treatment. Neuropathic pain relief was assessed by visual analogue scale (VAS). However, no direct comparison between SCS and standard use of medication(s) has been made in a prospective, randomized, long-term study.

Study objective

What is the long-term clinical benefit of best medical practice with and without adjunctive SCS Therapy in patients with chronic diabetic neuropathic

Study design

Open, Prospective, Randomized, Parallel-group, Comparative, Long-tern Effectiveness Study

Intervention

After a baseline period patients will be randomized to either the best medical practice with adjunctive SCS therapy arm or the best medical practice without adjunctive SCS therapy arm. The control group will be followed simultanously with the SCS-treatment group.

Study burden and risks

The risk associated with participation in the SCS-001 study is low. The components of the spinal cord stimulation system to be used in this study will be those commercially available and described in the protocol of the Dutch Neuromodulation study group.

Contacts

Public

St. Jude Medical

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Scientific

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

chronic, peripheral diabetic neuropathic pain that exists for more than one year patient cannot be treated further otherwise according to patient's medical specialist pain sensation on a VAS scale is minimal 5 (recording both for night and day)

Exclusion criteria

age < 18 yearspsychological problemsneuropathic pain in upper extremities

Study design

Design

Study phase: 4

Study type: Interventional

Intervention model: Parallel

Allocation: Randomized controlled trial

Masking: Open (masking not used)

Control: Active

Primary purpose: Treatment

Recruitment

NL

Recruitment status: Recruitment stopped

Start date (anticipated): 01-02-2007

Enrollment: 45

Type: Actual

Medical products/devices used

Generic name: spinal cord stimulation (SCS)

Registration: Yes - CE intended use

Ethics review

Approved WMO

Date: 17-01-2007

Application type: First submission

Review commission: METC Twente (Enschede)

Approved WMO

Date: 16-03-2007

Application type: Amendment

Review commission: METC Twente (Enschede)

Approved WMO

Date: 07-03-2013

Application type: Amendment

Review commission: METC Twente (Enschede)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register

ID

ССМО

NL13322.044.06