

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

29 May 2026

### The effect of prolotherapy in perineural points and lower extremity acupoints on neuropathic pain in patients with neuropathy

#### Protocol summary

##### Study aim

Evaluation of the effect of prolotherapy injection in perineural points versus lower limb acupuncture points on neuropathic pain in patients with neuropathy

##### Design

Randomized clinical trial with control group, with parallel groups, double-blind, phase 3, total of 48 patients, computer-randomized with random permutation block

##### Settings and conduct

A total of 48 eligible neuropathic patients are blindly divided into 3 groups. In the first group, 5% dextrose around the 3 peripheral nerves of the foot, in the second group, 5% dextrose injection around the 3 acupoints of the foot, and in the control group, no injections are given. Injections are weekly for 3 consecutive weeks. All three groups are given oral pregabalin 75 mg twice daily. All patients and data analyzer are blinded at all stages of the study

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Patients with lower extremity neuropathy aged 30 to 60 years who have not improved with conventional treatments, and they have signed a written consent form Exclusion criteria: Any tumor or infection or skin lesions at the injection site, Pregnancy, Bleeding disorders, History of prolotherapy drugs allergies

##### Intervention groups

In the intervention group 1, 5% dextrose is injected around 3 nerves of the foot, tibial sural and saphenous. Includes 16 people. Intervention group 2: 5% dextrose injection in 3 acupoints of foot, GB40, ST41 and ST44, including 16 people. Control group: without injection, including 16 people All patients receive oral pregabalin 75 mg twice daily

##### Main outcome variables

Douleur Neuropathique 4 questionnaire (DN4) and the Overall Neuropathy Limitations Scale (ONLS) score

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20210309050642N1**

Registration date: **2021-03-30, 1400/01/10**

Registration timing: **prospective**

Last update: **2021-03-30, 1400/01/10**

Update count: **0**

##### Registration date

2021-03-30, 1400/01/10

##### Registrant information

##### Name

Seyed Kamran Sajadi

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 71 0000 0000

##### Email address

dr.seyed.kamran.sajadi@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2021-04-09, 1400/01/20

##### Expected recruitment end date

2021-10-12, 1400/07/20

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of prolotherapy in perineural points and lower extremity acupoints on neuropathic pain in patients with neuropathy

**Public title**

The effect of prolotherapy injection in the treatment of neuropathy

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

Clinical signs of lower limb neuropathy in the last three months  
No response to conventional treatments  
Age 30-60 years  
Complete and sign the consent form

**Exclusion criteria:**

any tumor, infection, or skin lesion at the target site  
Pregnancy  
Bleeding disorders  
History of allergies to the drugs used

**Age**

From **30 years** old to **60 years** old

**Gender**

Both

**Phase**

3

**Groups that have been masked**

- Participant
- Data analyser

**Sample size**

Target sample size: **48**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

The total number of eligible patients is 48. This number is randomly divided by computer into three groups: perineural, acupuncture and control, each group of 16 people. Random allocation is done with 6 blocks.

**Blinding (investigator's opinion)**

Double blinded

**Blinding description**

The study is performed in double blind method. The type and volume of drug injected and its appearance are the same in all groups. Patients do not know the injection site in other groups. Also, the data analyzer is not aware of the interventions made in the groups.

**Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics Committee of Shiraz University of Medical

Sciences

**Street address**

Ethics Committee in Medical Research, Vice Chancellor for Research, 7th Floor, Central Building of Shiraz University of Medical Science, Zand St., Shiraz, Iran

**City**

Shiraz

**Province**

Fars

**Postal code**

7134844119

**Approval date**

2019-09-16, 1398/06/25

**Ethics committee reference number**

IR.SUMS.MED.REC.1398.402

**Health conditions studied****1****Description of health condition studied**

Neuropathy

**ICD-10 code**

G62.9

**ICD-10 code description**

Polyneuropathy, unspecified

**Primary outcomes****1****Description**

Douleur Neuropathique 4 questionnaire (DN4) score

**Timepoint**

For all patients, Douleur Neuropathique 4 questionnaire is filled out before injection and then in the first, second and eighth weeks after injection

**Method of measurement**

Completion of Douleur Neuropathique 4 Questionnaire

**2****Description**

Overall Neuropathy Limitations Scale (ONLS) score

**Timepoint**

For all patients, Overall Neuropathy Limitations Scale (ONLS) is filled out before injection and then in the first, second and eighth weeks after injection

**Method of measurement**

Completion of Overall Neuropathy Limitations Scale (ONLS) Questionnaire

**Secondary outcomes**

empty

**Intervention groups****1****Description**

Intervention group 1: after sterilizing the injection site with betadine, injection of 5 cc of 5% dextrose solution construction of Pasteur Institute with 1 cc of 2% lidocaine solution construction of Pasteur Institute around 3 peripheral nerves, tibial sural and saphenous, in the ankle area based on anatomical landmarks, 2 cc each point, subcutaneous with an angle of 45 degrees and a depth of 4 mm, with needle gage 25. Weekly injections for 3 consecutive weeks, number of patients in this group is 16. Oral pregabalin 75 mg twice daily for all patients

#### Category

Rehabilitation

## 2

#### Description

Intervention group 2: after sterilizing the injection site with betadine, injection of 5 cc of 5% dextrose solution construction of Pasteur Institute with 1 cc of 2% lidocaine solution construction of Pasteur Institute around 3 foot acupuncture points, ST41, ST44 and GB40 points, 2 cc each point, subcutaneous with an angle of 45 degrees and a depth of 4 mm, with needle gage 25. Weekly injections for 3 consecutive weeks, number of patients in this group is 16. Oral pregabalin 75 mg twice daily for all patients

#### Category

Rehabilitation

## 3

#### Description

Control group: oral pregabalin 75 mg twice daily, without injection in the foot. Number of patients in this group is 16

#### Category

Rehabilitation

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Imam Reza specialized and sub-specialized clinic

##### Full name of responsible person

Sharareh Roshanzamir

##### Street address

Imam Reza specialized and sub-specialized clinic,  
Namazi Square, Shiraz, Iran

##### City

Shiraz

##### Province

Fars

##### Postal code

71348714737

##### Phone

+98 71 3212 7001

##### Email

sharareh.roshanzamir@gmail.com

## 2

#### Recruitment center

##### Name of recruitment center

Shahid Faghihi Hospital

##### Full name of responsible person

Sharareh Roshanzamir

##### Street address

Faghihi hospital, Zand st., Shiraz, Iran

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+98 71 3235 1087

##### Email

sharareh.roshanzamir@gmail.com

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Shiraz University of Medical Sciences

##### Full name of responsible person

Younes Ghasemi, Vice Chancellor for Research, Shiraz  
University of Medical Sciences

##### Street address

Vice Chancellor for Research and Technology,  
Seventh Floor, Central Building of Shiraz University of  
Medical Sciences, Zand St., Shiraz, Iran

##### City

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##### Province

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##### Postal code

7134814336

##### Phone

+98 71 3235 7282

##### Email

vcrdep@sums.ac.ir

#### Grant name

#### Grant code / Reference number

#### Is the source of funding the same sponsor organization/entity?

Yes

#### Title of funding source

Shiraz University of Medical Sciences

#### Proportion provided by this source

100

#### Public or private sector

Public

#### Domestic or foreign origin

Domestic

#### Category of foreign source of funding

empty

#### Country of origin

#### Type of organization providing the funding

Academic

## Person responsible for general inquiries

### Contact

**Name of organization / entity**

Shiraz University of Medical Sciences

**Full name of responsible person**

Sharareh Roshanzamir

**Position**

Associate professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Physical Medicine

**Street address**

Physical Medicine and Rehabilitation Department,  
Faghihi hospital, Zand Blvd, Shiraz, Iran

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## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

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Sharareh Roshanzamir

**Position**

Associate professor

**Latest degree**

Specialist

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## Person responsible for updating data

### Contact

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**Full name of responsible person**

Sharareh Roshanzamir

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## Sharing plan

**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

**Study Protocol**

Yes - There is a plan to make this available

**Statistical Analysis Plan**

Yes - There is a plan to make this available

**Informed Consent Form**

Yes - There is a plan to make this available

**Clinical Study Report**

Yes - There is a plan to make this available

**Analytic Code**

Yes - There is a plan to make this available

**Data Dictionary**

Yes - There is a plan to make this available

**Title and more details about the data/document**

All data in this study will be shared without mentioning patients' identities, including patient grouping, injection methods, data obtained, and data analysis methods.

**When the data will become available and for how long**

Data will be available 3 months after approval

**To whom data/document is available**

The data will be accessible to physician colleagues in all disciplines as well as to patients

**Under which criteria data/document could be used**

Access to the data in this study will not require special conditions

**From where data/document is obtainable**

sharareh.roshanzamir@gmail.com

**What processes are involved for a request to access data/document**

An email request is sufficient

**Comments**