

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effect of Rosuvastatin on clinical and electrodiagnostic findings in patients with Carpal Tunnel Syndrome

Protocol summary

Summary

Carpal Tunnel Syndrome (CTS) is the most common mediastinal neuropathy that is caused by the pressure of the median nerve under the transverse wrist ligament. In this study, we investigated the effect of rosuvastatin on clinical signs and electrodeaganoind findings in patients with mild to moderate CTS. The present study is an interventional study (RCT). The study population included all patients with mild to moderate degrees of CTS. From among the patients referring to the study, 50 subjects were selected by available sampling and randomly assigned 25 patients in the treatment group with resoastatin and 25 in the control group (gol drug treatment). The study is done blindly. According to the random numbers table, they are divided into test and control groups. We will give Rosvothactine to one of the groups and another drug group. After taking the biography and conducting the examination, according to the findings of electrodeagnosis, they are in the mild and moderate group. The division of patients into these two groups according to the degree of median nerve function disorder is based on the findings of electrodeagnosis of the nerve damage. In the test group, a dose of 20 mg once daily is given as a rosuvastatin tablet and a daily dose of one tablet of placebo for one month. Data were collected using Boston Questionnaire, Visual Analogue Benchmarking (VAS), and Electrodiogenic Findings (EDX). Patients with clinical signs and electrodiagnostic CTS with mild to moderate intensity entered the study and patients who had previous history of statin use, history of previous surgery for CTS, severe CTS patients with muscle atrophy, severe statin allergy out of study To be

General information

Acronym

CTS-Carpal Tunnel Syndrome EDX-Electro Diagnostic
VAS-Visual Analogue Scale

IRCT registration information

IRCT registration number: **IRCT2017022732799N1**

Registration date: **2017-11-07, 1396/08/16**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-11-07, 1396/08/16

Registrant information

Name

Mehdi Karimian

Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Science

Expected recruitment start date

2017-04-21, 1396/02/01

Expected recruitment end date

2017-05-31, 1396/03/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Rosuvastatin on clinical and electrodiagnostic findings in patients with Carpal Tunnel Syndrome

Public title

The effect of Rosuvastatin on Carpal tunnel Syndrome

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criterion: Patients with mild to moderate clinical symptoms and electrodiagnostic features of CTS.

Exclusion criteria: patients who have a history of taking statins; history of previous surgery for CTS; patients with severe CTS with muscle atrophy; extreme sensitivity to statins.

Age

From **16 years** old to **60 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Shiraz University of Medical Sciences

Street address

Shiraz University of Medical Sciences, Zand st.

City

Shiraz

Postal code**Approval date**

2017-04-17, 1396/01/28

Ethics committee reference number

IR.SUMS.REC.1396.16

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

Carpal tunnel syndrome (CTS)

ICD-10 code

G56.0

ICD-10 code description

Carpal tunnel syndrome

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

median nerve motor and sensory distal latency

Timepoint

1 month(interval between the onset of treatment determines the outcome of the study)

Method of measurement

nerve conduction study

2**Description**

Symptom severity and functional status of the patient

Timepoint

1 month

Method of measurement

According to Boston Questionnaire

3**Description**

severity of pain

Timepoint

1 month

Method of measurement

Visual Analogue Scale (VAS)

Secondary outcomes**1****Description**

Patients' function

Timepoint

1

Method of measurement

Boston Questionnaire

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

In the intervention group, rosuvastatin 20 mg once daily.

Category

Treatment - Drugs

2**Description**

A daily control group is prescribed a placebo tablet for one month

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza clinic

Full name of responsible person

Mehdi Karimian

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Nemazee square, shiraz

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

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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

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty