Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 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 electrodeaganoid 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 Analoge 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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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
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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

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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