Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

Ultrasound Guided Treatment of Carpal Tunnel Syndrome

Protocol summary

Summary
Carpal tunnel syndrome is the most common compressive neuropathy of the upper extremity. There are a variety of treatment methods for carpal tunnel syndrome. The choice of treatment depends on the severity, the duration of symptoms, and patient preference. Aim: evaluation of a less invasive outpatient method for treatment of carpal tunnel syndrome. inclusion criteria: severe carpal tunnel syndrome exclusion criteria: previous neuropathy or nerve injury study population: 20 patient with severe carpal tunnel syndrome intervention: ultrasound guided needle fenestrating of carpal ligament of wrist primary outcome: clinical improvement secondary outcome: sonographic improvement

General information

Acronym
IRCT registration information
IRCT registration number: **IRCT2016062627359N2**
Registration date: **2016-09-13, 1395/06/23**
Registration timing: **retrospective**

Last update:
Update count: **0**
Registration date
2016-09-13, 1395/06/23

Registrant information
Name
Seyed Kazem Shakouri
Name of organization / entity
Tabriz University of Medical Sciences, Physical mediacine and rehabilitation department
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Recruitment status
Recruitment complete
Funding source
Tabriz University of Medical Sciences

Expected recruitment start date
2014-11-01, 1393/08/10
Expected recruitment end date
2015-11-01, 1394/08/10
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Ultrasound Guided Treatment of Carpal Tunnel Syndrome

Public title
Treatment of Carpal Tunnel Syndrome
Purpose
Treatment
Inclusion/Exclusion criteria
inclusion criteria:electrodiagnostic findings regarding Carpal Tunnel Syndrome ; patient unwilling to perform surgery exclusion criteria: neuropathy or an old nerve injury; mental disorder ; dissatisfaction to fill consent paper
Age
From **18 years** old to **65 years** old
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **20**
Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Vice chancellor of Research, Tabriz University of Medical Science

Street address

3rd floor, Building No2, Tabriz University of Medical Science , Golgasht street

City

Tabriz

Postal code

Approval date

2016-04-25, 1395/02/06

Ethics committee reference number

IR.TBZMED.REC.1395.75

Health conditions studied

1

Description of health condition studied

Carpal Tunnel Syndrome

ICD-10 code

G56.0

ICD-10 code description

carpal tunnel syndrome

Primary outcomes

1

Description

Clinical Improvement

Timepoint

before and after one month from intervention

Method of measurement

Boston Carpal Tunnel Questionnaire

Secondary outcomes

1

Description

Sonographic improvement

Timepoint

before and after one month from intervention

Method of measurement

median nerve cross sectional area on ultrasound

2

Description

Electrodiagnostic improvement

Timepoint

before and after one month from intervention

Method of measurement

electrodiagnostic study of median nerve

Intervention groups

1

Description

intervention: patient lies prone an wrist sets in supine position. median nerve is visualized by sonographic guidance at wrist area.after local analgesia a 22 gauge needle will be entered from ulnar side of median nerve and carpal ligament starts to be fenestrated. at the end 40 miligram of Triamcinolone is injected and needle is removed.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Physical Medicine and Rehabilitation Research Center

Full name of responsible person

Seyed kazem Shakouri MD

Street address

Physical Medicine and Rehabilitation ward, Imam Reza hospital, Golgasht St.

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor of research, Tabriz University of Medical Science

Full name of responsible person

Dr. Mohammadreza Rashidi

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City

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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
Vice chancellor of research, Tabriz University of Medical Science
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

Person responsible for scientific inquiries

Contact
Name of organization / entity
Physical Medicine and Rehabilitation group, Tabriz University of Medical Science
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Person responsible for updating data

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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