

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Aug 2026

Ultrasound Guided Treatment of Carpal Tunnel Syndrome

Protocol summary

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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

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

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

Country

Iran (Islamic Republic of)

Phone

+98 33364672

Email address

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

Street address

3rd floor, Central building number 2, Tabriz University
of Medical Science , Golgasht St.

City

Tabriz

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

Full name of responsible person

Seyed kazem Shakouri

Position

Professor

Other areas of specialty/work

Street address

Physical Medicine and Rehabilitation ward, Imamreza hospital, Golgasht St.

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Person responsible for updating data

Contact

Name of organization / entity

Physical Medicine and Rehabilitation group, Tabriz University of Medical Science

Full name of responsible person

Alireza Pishgahi, MD

Position

Assistant Professor

Other areas of specialty/work

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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