

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparing effectiveness of Local steroid injection versus CTR in the treatment of patients with mild to moderate CTS

Protocol summary

Summary

The aim of our study was to compare effectiveness of local steroid injection versus CTR in relieving signs and symptoms of CTS and patient satisfaction. Population of study was all patients with CTS admitted at Shafa Hospital clinic from 19.2.2005 to 20.4.2008. Inclusion criteria were all patients with signs and symptoms of CTS documented by electrophysiological studies. Exclusion criteria were all patients with CTS having underlying disease. We had 94 cases for study. Patients were treated by local steroid injection into carpal tunnel or carpal tunnel release. Study was performed from 19.02.2005 to 20.04.2008. Effectiveness of these two treatment modalities in relieving CTS signs and symptoms and also patient satisfaction was compared with each other.

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Recruitment status

Recruitment complete

Funding source

This study has done and completed previously

Expected recruitment start date

2005-02-19, 1383/12/01

Expected recruitment end date

2008-04-20, 1387/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017011832046N1**

Registration date: **2017-07-06, 1396/04/15**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-07-06, 1396/04/15

Registrant information

Name

Reza Babaei

Name of organization / entity

ShafaYahyaian hospital

Country

Iran (Islamic Republic of)

Phone

Scientific title

Comparing effectiveness of Local steroid injection versus CTR in the treatment of patients with mild to moderate CTS

Public title

Comparing effectiveness of local steroid injection into carpal tunnel with surgery in the treatment of patients with mild to moderate carpal tunnel syndrome

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Every patient with CTS. Exclusion criteria: Any patient with CTS having underlying diseases such as diabetes, thyroid diseases, previous wrist fx, ganglion cyst, etc.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked
No information

Sample size
Target sample size: 94

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
Patients and their type of intervention were determined by one person of research team randomly .In fact surgeons were unaware of patients who were admitted and should obey recommended intervention and patients were unaware of type of intervention and type of intervention was recommended by giving odd or even numbers to patients in which odds were CTR and evens local steroid injection and contributor was unaware of this characteristic.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of university medical science Iran
University Of Medical Science Tehran Iran

Street address

Iran University Of Medical Science, Aside to Milad
Hospital, Hemmat Highway,Tehran, IRAN

City

Tehran

Postal code

1449614535

Approval date

2008-04-27, 1387/02/08

Ethics committee reference number

78/3198

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

Tingling, numbness, pain, atrophy.

Timepoint

Before treatment and 6 month after treatment

Method of measurement

Boston questionare

2

Description

Severity of symptoms and patients satisfaction

Timepoint

Before and 6 month after treatment

Method of measurement

EIMG and NCV findings and patient satisfaction
questionnaire

3

Description

Physical signs such as Tinnel, compresion test, thenar
atrophy and Phallen test

Timepoint

Before intervention and six month after it

Method of measurement

Physical examination tests were done according to rules
in references

Secondary outcomes

1

Description

Pain and sudeck atrophy

Timepoint

Six month after intervention

Method of measurement

Physical examination

Intervention groups

1

Description

Injection of 40 mg triamcinolone with 20 gm lidocaine
into the carpal tunnel in intervention group.

Category

Treatment - Drugs

2

Description

Carpal tunnel release in control group.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

ShafaYahyaiian Hospital

Full name of responsible person

Babaei Reza

Street address

Mojahedin Eslam St, Baharestan Sq.

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research and Technology Iran
University Of Medical Sciences

Full name of responsible person

moosavi Seyyed Ali Javad

Street address

Seventh floor, Department Of Internal Medicine,
Hazrat-E-Rasoul Hospital, Iran University Of Medical
Sciences, Niayesh St., Sattarkahn Ave., Tehran, Iran

City

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice Chancellor for Research and Technology Iran
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

ShafaYahyaiian Hospital

Full name of responsible person

Babaei Reza

Position

Resident in orthopedic surgery

Other areas of specialty/work**Street address**

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Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

ShafaYahyaiian Hospital

Full name of responsible person

Jafari Davood

Position

Sub-specialist in hand surgery

Other areas of specialty/work**Street address**

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Person responsible for updating data

Contact

Name of organization / entity

ShafaYahyaiian Hospital

Full name of responsible person

Babaei Reza

Position

Resident of orthopedic surgery

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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