Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 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.

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

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ShafaYahyaiian hospital
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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

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 afer treatment

Method of measurement

Boston questienare

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 questionaire

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
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for Research and Technology Iran University Of Medical Sciences
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Seventh floor, Department Of Internal Medicine, Hazrat-E-Rasoul Hospital, Iran University Of Medical Sciences, Niayesh St., Sattarkahn Ave., Tehran, Iran
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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

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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