

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

18 Jul 2026

### Evaluating Therapeutic effects of Wrist splint in terms of EMG-NCV in patients with Carpal Tunnel Syndrome (CTS) under treatment with Ibuprofen

#### Protocol summary

##### Summary

The purpose of this study was to evaluate the therapeutic effects of Wrist Splint in patients with carpal tunnel syndrome (CTS) treated with ibuprofen from EMG-NCV perspectives in patients referred to the Neurology Clinic of Vali-e-Asr hospital in Birjand. The sample size of this study is 40 people including 20 case and 20 control subjects. The main inclusion criteria for the study is having carpal tunnel syndrome and all patients with carpal tunnel syndrome caused by pregnancy, tumors and fractures (main exclusion criteria) will be excluded. The study duration is 6 weeks. Before and after the intervention the EMG-NCV study will be carried out on all patients in order to monitor the consequences of the study (including nerve conduction velocity, nerve conduction amplitude and nerve conduction latency) .

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2014111018063N2**  
Registration date: **2014-12-19, 1393/09/28**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2014-12-19, 1393/09/28

##### Registrant information

##### Name

Ali Rajabpour Sanati

##### Name of organization / entity

Birjand University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 56 3234 1067

##### Email address

ali.poursanati@bums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice-chancellor for research - Birjand University of Medical Sciences

##### Expected recruitment start date

2014-11-22, 1393/09/01

##### Expected recruitment end date

2014-12-22, 1393/10/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Evaluating Therapeutic effects of Wrist splint in terms of EMG-NCV in patients with Carpal Tunnel Syndrome (CTS) under treatment with Ibuprofen

##### Public title

Evaluating Therapeutic effects of Wrist splint in patients with Carpal Tunnel Syndrome under treatment with Ibuprofen

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: Personal consent for participation; not being pregnant or having pregnancy-induced carpal tunnel syndrome; not having carpal tunnel syndrome caused by trauma such as wrist fractures or tumor disorders; not suffering from spinal cord injuries or organic upper extremity disorders; no addiction;

Exclusion criteria: Not willing for re-examination and performing laboratory tests; the inclusion of a specific organic pathology such as cancer, tumors, fractures, collagen vascular diseases such as RA, metabolic diseases such as diabetes, thyroid disorders, or other problems that interfere with the study

#### Age

No age limit

#### Gender

Both

#### Phase

2-3

#### Groups that have been masked

No information

#### Sample size

Target sample size: 40

#### Randomization (investigator's opinion)

N/A

#### Randomization description

#### Blinding (investigator's opinion)

Not blinded

#### Blinding description

#### Placebo

Not used

#### Assignment

Parallel

#### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Birjand University of Medical Sciences

##### Street address

Moallem Blvd, Birjand, Iran

##### City

Birjand

##### Postal code

#### Approval date

2014-09-06, 1393/06/15

#### Ethics committee reference number

1393-06-02

## Health conditions studied

### 1

#### Description of health condition studied

Carpal Tunnel Syndrome

#### ICD-10 code

G56

#### ICD-10 code description

Mononeuropathies of upper limb

## Primary outcomes

### 1

#### Description

velocity of nerve conduction

#### Timepoint

before intervention - after intervention

#### Method of measurement

EMG-NCV

### 2

#### Description

amplitude of nerve conduction

#### Timepoint

before intervention - after intervention

#### Method of measurement

EMG-NCV

### 3

#### Description

latency (s) of nerve conduction

#### Timepoint

before intervention - after intervention

#### Method of measurement

EMG-NCV

### 4

#### Description

latency (m) of nerve conduction

#### Timepoint

before intervention - after intervention

#### Method of measurement

EMG-NCV

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Control group: treated with Ibuprofen 800 mg twice a day for 6 weeks

#### Category

Treatment - Drugs

### 2

#### Description

Case group: treated with Ibuprofen 800 mg twice a day with wrist splint for 6 weeks.

#### Category

Treatment - Other

## Recruitment centers

1

#### Recruitment center

**Name of recruitment center**

Vali-e-Asr Hospital

**Full name of responsible person**

Ali Rajabpour Sanati

**Street address**

Moallem Blvd, Birjand, Iran

**City**

Birjand

#### Sponsors / Funding sources

1

#### Sponsor

**Name of organization / entity**

Vice-chancellor for research - Birjand University of Medical Sciences

**Full name of responsible person**

Dr. Zarban

**Street address**

Moallem Blvd, Birjand, Iran

**City**

Birjand

**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 - Birjand 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**

Birjand University of Medical Sciences

**Full name of responsible person**

Ali Rajabpour Sanati

**Position**

Medical Student

**Other areas of specialty/work**

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#### Person responsible for scientific inquiries

##### Contact

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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*