

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Comparison of the effect of static and dynamic splints on pain and functional abilities of hand in women with De Quervain syndrome: a randomized clinical trial

#### Protocol summary

##### Summary

Objectives: To assess the effect of static and dynamic splints on pain and functional abilities of hand in women with De Quervain syndrome. Design: a randomized clinical trial. Setting and conduct: The eligible women with De Quervain syndrome who will refer to School of Rehabilitation during the study period will be enrolled into the trial. Inclusion criteria: Women with De Quervain syndrome; age of 18 to 25 years; ability to take objects; literate. Exclusion criteria: history of hand surgery; hand deformity; skin problem in hand. Intervention group 1: Fixing static splints on the hand for 6 months. Intervention group 2: Fixing dynamic splints on the hand for 6 months. Primary outcome: (a) measuring pain by standard questionnaire 6 months after intervention; (b) measuring inability by standard questionnaire 6 months after intervention. Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Not possible.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201702209014N144**

Registration date: **2017-03-06, 1395/12/16**

Registration timing: **prospective**

Last update:

Update count: **0**

##### Registration date

2017-03-06, 1395/12/16

##### Registrant information

##### Name

Jalal Poorolajal

##### Name of organization / entity

Department of Epidemiology & Biostatistics Hamadan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 81 1838 0090

##### Email address

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##### Recruitment status

**Recruitment complete**

##### Funding source

Vice-chancellor for Research the Technology, Hamadan University of Medical Sciences

##### Expected recruitment start date

2017-03-17, 1395/12/27

##### Expected recruitment end date

2017-11-18, 1396/08/27

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of the effect of static and dynamic splints on pain and functional abilities of hand in women with De Quervain syndrome: a randomized clinical trial

##### Public title

Comparison of the effect of static and dynamic splints on pain and functional abilities of hand in women with De Quervain syndrome

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: Women with De Quervain syndrome; age of 18 to 25 years; ability to take objects; literate.

Exclusion criteria: history of hand surgery; hand deformity; skin problem in hand.

### Age

No age limit

### Gender

Female

### Phase

2

### Groups that have been masked

No information

### Sample size

Target sample size: 24

### Randomization (investigator's opinion)

Randomized

### Randomization description

### Blinding (investigator's opinion)

Not blinded

### Blinding description

### Placebo

Not used

### Assignment

Parallel

### Other design features

Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Not possible.

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

##### Street address

Vice-chancellor for Research the Technology,  
Hamadan University of Medical Sciences, Shahid  
Fahmideh Ave

##### City

Hamadan

##### Postal code

6517838695

##### Approval date

2017-01-28, 1395/11/09

##### Ethics committee reference number

IR.UMSHA.REC.1395.500

## Health conditions studied

### 1

#### Description of health condition studied

De Quervain syndrome

#### ICD-10 code

M65.4

#### ICD-10 code description

Radial styloid tenosynovitis [de Quervain]

## Primary outcomes

### 1

#### Description

measuring pain

#### Timepoint

6 months after intervention

#### Method of measurement

by standard questionnaire

### 2

#### Description

measuring inability

#### Timepoint

6 months after intervention

#### Method of measurement

by standard questionnaire

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group 1: Fixing static splints on the hand for 6 months.

#### Category

Treatment - Drugs

### 2

#### Description

Intervention group 2: Fixing dynamic splints on the hand for 6 months.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

School of Rehabilitation

##### Full name of responsible person

Dr Farzad Farmani

##### Street address

School of Rehabilitation, Hamadan University of  
Medical Sciences, Shahid Fahmideh Ave.

##### City

Hamadan

## Sponsors / Funding sources

## 1

### Sponsor

**Name of organization / entity**

Vice-chancellor for Research the Technology,  
Hamadan University of Medical Sciences

**Full name of responsible person**

Dr Saeid Bashirian

**Street address**

Hamadan University of Medical Sciences, Shahid  
Fahmideh Ave

**City**

Hamadan

**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 the Technology, Hamadan  
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**

School of Rehabilitation

**Full name of responsible person**

Dr Farzad Farmani

**Position**

Specialist in Orthosis and Prosthesis

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

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### Person responsible for scientific inquiries

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### Person responsible for updating data

**Contact****Name of organization / entity**

Department of Epidemiology

**Full name of responsible person**

Dr Jalal Poorolajal

**Position**

Associate Professor

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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*