

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

11 Jul 2026

### The comparison of electromyography results of nerve reconstruction by two ways of Perineurium and Epineurium on the patients having ulnar nerve injury hospitalized in Shahid- Rajaei Hospital of Qazvin

#### Protocol summary

##### Summary

The objective of the study is to comparison of electromyography results of nerve reconstruction by two ways of Perineurium and Epineurium on the patients having ulnar nerve injury hospitalized in Shahid- Rajaei Hospital of Qazvin. The main conditions to enter study is the patients having ulnar nerve injury in the distal of forearm surface the main conditions to exit of study: The patients who have ulnar nerve injury in the other surface area. Study design: Randomized, single blind, without placebo, Single center, Phase II, with Sample size of 28 Intervention: The patients who have surgery by Epineurium way, then their electromyography results and sensory and motor state of organ are examined four months later. The patients who have surgery by Perineurium way, then their electromyography results and sensory and motor state of organ are examined four months later. The main outcomes of study are The rate of recovery by considering Electromyogram and sensory and motor examination performance in two groups .

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2013122915971N1**

Registration date: **2014-01-27, 1392/11/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2014-01-27, 1392/11/07

##### Registrant information

##### Name

Ali Torkashvand

##### Name of organization / entity

Qazvin University Of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 982813335800

##### Email address

atorkashvand@qums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Department Of Research Of Qazvin University Of Medical Sciences

##### Expected recruitment start date

2013-04-04, 1392/01/15

##### Expected recruitment end date

2014-01-05, 1392/10/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The comparison of electromyography results of nerve reconstruction by two ways of Perineurium and Epineurium on the patients having ulnar nerve injury hospitalized in Shahid- Rajaei Hospital of Qazvin

##### Public title

The comparison of electromyography results of nerve reconstruction by two ways in the patients having nerve injury

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

The main conditions to enter study: the patients having

ulnar nerve injury in the distal of forearm surface the main conditions to exit of study: The patients who have ulnar nerve injury in the other surface area.

#### **Age**

No age limit

#### **Gender**

Both

#### **Phase**

2-3

#### **Groups that have been masked**

*No information*

#### **Sample size**

Target sample size: **28**

#### **Randomization (investigator's opinion)**

Randomized

#### **Randomization description**

#### **Blinding (investigator's opinion)**

Single blinded

#### **Blinding description**

#### **Placebo**

Not used

#### **Assignment**

Parallel

#### **Other design features**

### **Secondary Ids**

empty

### **Ethics committees**

#### **1**

##### **Ethics committee**

###### **Name of ethics committee**

Ethics committee Of Qazvin University Of Medical Sciences

###### **Street address**

Qazvin University Of Medical Sciences, Navab Street

###### **City**

Qazvin

###### **Postal code**

##### **Approval date**

2013-05-22, 1392/03/01

##### **Ethics committee reference number**

28.20.7411

### **Health conditions studied**

#### **1**

##### **Description of health condition studied**

Ulnar Nerve Injury

##### **ICD-10 code**

G56.2

##### **ICD-10 code description**

Lesion Of Ulnar Nerve

### **Primary outcomes**

#### **1**

##### **Description**

Electromyography results of nerve reconstruction by Perineurium

##### **Timepoint**

4 months after surgery

##### **Method of measurement**

Electromyography

#### **2**

##### **Description**

Electromyography results of nerve reconstruction by Epineurium

##### **Timepoint**

4 months after surgery

##### **Method of measurement**

Electromyography

### **Secondary outcomes**

#### **1**

##### **Description**

Sensory state recovery by Epineurium way

##### **Timepoint**

4 months after surgery

##### **Method of measurement**

Examination of surface palpation sensation with cotton and pain sensation with needle

#### **2**

##### **Description**

Motor state recovery by Epineurium way

##### **Timepoint**

4 months after surgery

##### **Method of measurement**

Examination motor by qualitative measurement of muscular strength from one of fifth to fifth of fifth

#### **3**

##### **Description**

Sensory state recovery by Perineurium way

##### **Timepoint**

4 months after surgery

##### **Method of measurement**

Examination of surface palpation sensation with cotton and pain sensation with needle

#### **4**

##### **Description**

Motor state recovery by Perineurium way

##### **Timepoint**

4 months after surgery

##### **Method of measurement**

Examination motor by qualitative measurement of muscular strength from one of fifth to fifth of fifth

## Intervention groups

1

### Description

The patients who have surgery by Epineurium way, then their electromyography results and sensory and motor state of organ are examined four months later.

### Category

Treatment - Surgery

2

### Description

The patients who have surgery by Perineurium way, then their electromyography results and sensory and motor state of organ are examined four months later.

### Category

Treatment - Surgery

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Shahid Rajaei Hospital

#### Full name of responsible person

Ali Torkashvand

#### Street address

Shahid Rajaei Hospital, Padegan Street

#### City

Qazvin

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Department Of Research Of Qazvin University Of Medical Sciences

#### Full name of responsible person

Mahnaz Abasi

#### Street address

Qazvin University Of Medical Surgery, Navab Street

#### City

Qazvin

### Grant name

### Grant code / Reference number

### Is the source of funding the same sponsor organization/entity?

Yes

### Title of funding source

Department Of Research Of Qazvin 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

Qazvin University Of Medical Sciences

#### Full name of responsible person

Ali Torkashvand

#### Position

Surgery Resident

#### Other areas of specialty/work

#### Street address

Qazvin University Of Medical Sciences, Navab Street

#### City

Qazvin

#### Postal code

#### Phone

+98 28 1333 5800

#### Fax

#### Email

atorkashvand@qums.ac.ir

#### Web page address

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

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#### Full name of responsible person

Ali Torkashvand

#### Position

Surgery Resident

#### Other areas of specialty/work

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**Web page address**

**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*