

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

05 Jun 2026

### Efficacy of coenzyme Q10 in prophylaxis of migraine headache

#### Protocol summary

##### Study aim

Efficacy of coenzyme Q10 in prophylaxis of migraine headache

##### Design

In this research, 112 eligible patients referring to migraine headache are investigated. Then, patients are randomly divided into two control and intervention groups. The control group takes propranolol and the intervention group take propranolol and Co Q10 (100 mg). After 3 months the groups are investigated by symptoms like headache severity, frequency, duration, and vomiting.

##### Settings and conduct

This is a double blind study. Participants are the patients with migraine headache who will refer to Imam Reza Hospital.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Patients with migraine headache (adults); Over 18 years old  
Exclusion criteria: Patients with pregnancy and have serious disorder that interaction with treatment of migraine

##### Intervention groups

112 eligible patients will randomly divided into control and intervention groups. The control group takes propranolol and the intervention group take propranolol and Co Q10 (100 mg). After 3 months the groups are investigated by symptoms like headache severity, frequency, duration, and vomiting.

##### Main outcome variables

Prevention of migraine headaches

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20171112037413N1**

Registration date: **2018-01-07, 1396/10/17**

Registration timing: **registered\_while\_recruiting**

Last update: **2018-01-07, 1396/10/17**

Update count: **0**

##### Registration date

2018-01-07, 1396/10/17

##### Registrant information

###### Name

**Name of organization / entity**

###### Country

Iran (Islamic Republic of)

###### Phone

+98 914 218 1943

###### Email address

elahe.hosseinpour@kums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2017-12-21, 1396/09/30

##### Expected recruitment end date

2018-08-22, 1397/05/31

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Efficacy of coenzyme Q10 in prophylaxis of migraine headache

##### Public title

Efficacy of coenzyme Q10 in prophylaxis of migraine headache

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

**Inclusion criteria:**

migraine headache

**Exclusion criteria:**

Pregnancy serious disorders that have interaction with treatment of migraine

**Age**

From **18 years** old

**Gender**

Both

**Phase**

2-3

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **112**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Simple randomization

**Blinding (investigator's opinion)**

Double blinded

**Blinding description**

by supervisor

**Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics committee of Kermanshah University of Medical Sciences

**Street address**

Shahid Beheshti Boulevard

**City**

Kermanshah

**Province**

Kermanshah

**Postal code**

6715847141

**Approval date**

2017-11-15, 1396/08/24

**Ethics committee reference number**

IR.KUMS.REC.1396.433

**Health conditions studied****1****Description of health condition studied**

Migraine

**ICD-10 code**

G43

**ICD-10 code description**

Migraine

**Primary outcomes****1****Description**

Severity, frequency, and duration of headache; nausea and vomiting; photophobia; Phonophobia

**Timepoint**

at the beginning of investigation and after 3 month

**Method of measurement**

questionnaire

**Secondary outcomes**

empty

**Intervention groups****1****Description**

Intervention group: Co Q10-100mg

**Category**

Treatment - Drugs

**2****Description**

Control group: Propranolol (10 mg)

**Category**

Treatment - Drugs

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Imam Reza Hospital

**Full name of responsible person**

Dr. Hadi Gharabaghian Azar

**Street address**

Parastar Boulevard

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**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Kermanshah University of Medical Sciences

**Full name of responsible person**

Kurosh Hamzei

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src\_research@kums.ac.ir

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Kermanshah University of Medical Sciences

**Proportion provided by this source**

100

**Public or private sector**

Public

**Domestic or foreign origin**

Domestic

**Category of foreign source of funding**

*empty*

**Country of origin**

**Type of organization providing the funding**

Academic

## Person responsible for general inquiries

**Contact**

**Name of organization / entity**

Kermanshah University of Medical Sciences

**Full name of responsible person**

Elahe Hosseinpour

**Position**

resident

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Neurology

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## Person responsible for scientific inquiries

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Kermanshah University of Medical Sciences

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Dr. Hadi Gharabaghian Azar

**Position**

Assistant professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Neurology

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## Person responsible for updating data

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Elahe Hosseinpour

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Resident

**Latest degree**

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**Other areas of specialty/work**

Neurology

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## Sharing plan

**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

**Study Protocol**

Undecided - It is not yet known if there will be a plan to make this available

**Statistical Analysis Plan**

Undecided - It is not yet known if there will be a plan to make this available

**Informed Consent Form**

Undecided - It is not yet known if there will be a plan to

make this available  
**Clinical Study Report**  
Undecided - It is not yet known if there will be a plan to  
make this available

**Analytic Code**  
Not applicable  
**Data Dictionary**  
Not applicable