Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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

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Kermanshah

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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

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Parastar Boulevard

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Sponsors / Funding sources

1

Sponsor

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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
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resident
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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