

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Evaluation of the effectiveness of magnesium compared with sodium valproate in migraine headache prophylaxis

Protocol summary

2015-10-11, 1394/07/19

Summary

The aim of this study is to compare the efficacy of magnesium with sodium valproate as prophylactic therapy in adult patients with a diagnosis of migraine headache based on the latest International Headache Society criteria. Study design is randomized, double-blind and prospective. These subject (228 patients) will be entered in the study with a personal satisfaction with regard to the inclusion and exclusion criteria and will be assigned randomly into one out of three groups: 250 mg twice a day magnesium oxide (n=76), 200 mg twice a day sodium valproate (n=76), magnesium oxide (250 mg twice daily) and sodium valproate (200 mg once per day) concurrently (n=76). The study duration from beginning of drug prescription will be 3 month. The primary objective of the study is to compare the frequency and severity of migraine headaches based on Wong-Baker Faces Pain Rating Scale at the end of month 1, 2 and 3 in three groups. Follow up visits will be scheduled every 4 weeks to 12 weeks. To evaluate blood and liver side effects of drugs, CBC, diff, AST, ALT tests will be performed at the start of therapy and the end of 12 weeks of the study. Finally, the severity, frequency, duration of headache, side effects and amount of analgesics needed during a migraine attack will be compared in the two groups.

Registrant information

Name

Samira Khani

Name of organization / entity

Qom University of Medical Science

Country

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Email address

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Recruitment status

Recruitment complete

Funding source

Qom University of Medical Sciences

Expected recruitment start date

2015-11-22, 1394/09/01

Expected recruitment end date

2017-05-22, 1396/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015081923685N1**

Registration date: **2015-10-11, 1394/07/19**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

Scientific title

Evaluation of the effectiveness of magnesium compared with sodium valproate in migraine headache prophylaxis

Public title

Comparison of magnesium and sodium valproate in migraine prophylaxis

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: All patients diagnosed with migraine according to the latest International Headache Society

criteria; history of migraine with or without aura for at least 6 months; patient's age between 18-65 years; at least 2 attacks monthly. Exclusion criteria: non-migraine headaches (total number of headache days per month more than 15); overuse of analgesics in migraine attacks (consumption of ergots, NSAIDs and triptans more than 8 days a month); substance and alcohol dependence; illiteracy of patients and their family (unable to fill diaries); pregnancy and breast feeding; any previous history of magnesium or sodium valporate intolerance; history of renal, liver and chronic disease; elevated liver enzymes in the first sampling more than 2 times the normal; neurologic disorders other than migraine; use of supplements that contain magnesium, calcium and riboflavin; use of herbal anti-migraine; use of anti-depressant and anti-psychotic medications.

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **228**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features

Block randomization sampling will be used in this study.

Secondary Ids

empty

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

Ethics committee of Qom University of Medical Sciences

Street address

No. 83, alley 4 ,St. 1.1, Safashahr Ave., Qom

City

Qom

Postal code**Approval date**

2015-09-07, 1394/06/16

Ethics committee reference number

IR.MUQ.REC.1394.73

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

Migraine with aura

ICD-10 code

G43.1

ICD-10 code description

Migraine with aura [classical migraine]

2**Description of health condition studied**

Migraine without aura

ICD-10 code

G43.0

ICD-10 code description

Migraine without aura [common migraine]

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

Severity of headache

Timepoint

In each migraine attack

Method of measurement

The patient will record the severity of headache in each attack based on Wong-Baker Faces Pain Rating Scale using diary and these notes will be registered every 4 weeks by physician.

2**Description**

duration of headache

Timepoint

In each migraine attack

Method of measurement

patient will record the hours of headache in each attack , physician will register them every 4 weeks.

3**Description**

frequency of headaches

Timepoint

every 4 weeks

Method of measurement

According to patients daily notes

4**Description**

Analgesic use

Timepoint

every 4 weeks

Method of measurement

According to patients daily notes

Secondary outcomes

1

Description

clinical side effects

Timepoint

every 4 weeks

Method of measurement

According to patient daily notes

2

Description

Laboratory side effects (Blood cell count & liver function test changes)

Timepoint

before the treatment course and at the end of 12 weeks

Method of measurement

lab tests

Intervention groups

1

Description

Intervention group 3: Sodium valporate tablet 200 mg once a day orally, for 12 weeks. Magnesium tablet 250 mg twice a day orally, for 12 weeks

Category

Treatment - Drugs

2

Description

Intervention group 2: Sodium valporate tablet 200 mg twice a day orally, for 12 weeks. Placebo tablet once a day orally, for 12 weeks.

Category

Treatment - Drugs

3

Description

Intervention group 1: Magnesium tablet 250 mg twice a day orally, for 12 weeks. Placebo tablet once a day orally, for 12 weeks.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Hospital

Full name of responsible person

Dr. Seyed Shamsodin Hejazi

Street address

Qom, Shahid Beheshti bovd.

City

Qom

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Qom University of Medical Sciences

Full name of responsible person

Hossein Saghafi

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No. 83, alley 4 ,St. 1.1, Safashahr Ave., Qom

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, Qom 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 Medicine , Qom University of Medical Sciences

Full name of responsible person

Dr. Samira Khani

Position

Pharmacology Ph.D., assistant professor

Other areas of specialty/work

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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