

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation of the intravenous Magnesium sulfate effect in clinically improvement of patient with acute ischemic stroke

Protocol summary

Summary

Stroke is the leading cause of death and leading cause of disability in adult. The purpose of this clinical trial is Evaluation of the intravenous Magnesium sulfate effect in clinically improvement of patient with acute ischemic stroke. Patients will be randomly selected in neurology emergency of Farabi & Emam Reza hospital of Kermanshah. A group of 97 patients who clinically diagnosed acute ischemic stroke will be enrolled. The patients will be randomly allocated into one of two groups. we will administer Magnesium sulfate 4gr IV in 50 cc normal saline over 15 minutes followed by 16 gr in 100cc over 24 hours as a continuous infusion. The placebo group received equal volumes of normal saline alone. In all patients measure of global disability according to modified Rankin scale and NIH stroke scale will be assessed before of the treatment, 3 days after treatment and discharge time. Finally, measure of global disability, amount of admission times and mortality rate in each group will be compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138901101856N2**
Registration date: **2010-03-30, 1389/01/10**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2010-03-30, 1389/01/10

Registrant information

Name

Dariush Afshari

Name of organization / entity

Kermanshah University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

+98 83 1835 0177

Email address

dafshari@kums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-chancellor for research, Kermanshah University of Medical Sciences and Health Services

Expected recruitment start date

2010-03-11, 1388/12/20

Expected recruitment end date

2010-12-11, 1389/09/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the intravenous Magnesium sulfate effect in clinically improvement of patient with acute ischemic stroke

Public title

Evaluation of the Magnesium sulfate effect in ischemic stroke treatment

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patient's age between 40-95 years, last known well time within 12 hours of treatment initiation .
Exclusion criteria: pregnancy-coma -heart block-chronic renal impairment- respiratory distress($24 < RR < 32$ & $SpO_2 < 90$)- systolic blood pressure < 90 or > 220 mmHg-

pre-existing neuralgic psychiatric or advanced systemic disease that confound neuralgical or functional outcome evaluation -hemorrhagic stroke - known recent stroke wheithin past 30 days- rapidly resolving deficit

Age

From **40 years** old to **95 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **97**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kermanshah University of Medical Sciences and Health Servises Ethical Comitte

Street address

Shahid Beheshti boulevard, Kermanshah

City

Kermanshah

Postal code

Approval date

empty

Ethics committee reference number

88113

Health conditions studied

1

Description of health condition studied

ischemic stroke

ICD-10 code

I64

ICD-10 code description

Stroke

Primary outcomes

1

Description

measure of global disability

Timepoint

before of the treatment ,3days after treatment and discharge time

Method of measurement

according to modified Rankin scale

2

Description

mortality rate

Timepoint

During admition times

Method of measurement

patient' s medical documents

3

Description

amount of admition times

Timepoint

discharge time

Method of measurement

patient' s medical documents

Secondary outcomes

1

Description

Clinical side effects

Timepoint

daily

Method of measurement

According to patients daily notes

Intervention groups

1

Description

Magnesium sulfate 4gr IV in 50 cc normal saline over 15 minutes followed by 16 gr in 100cc over 24 hours

Category

Treatment - Drugs

2

Description

equal volumes of normal saline

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Farabi Hospital of Kermanshah

Full name of responsible person

Dr Dariush Afshari

Street address

Ashayer boulevard, Dolat Abad, Kermanshah

City

Kermanshah

2

Recruitment center

Name of recruitment center

Emam Reza Hospitl of Kermanshah

Full name of responsible person

dr nasrin moradian

Street address

Sorkhelijeh, Kermanshah

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellor for research, Kermanshah University of Medical Sciences and Health Services

Full name of responsible person

Dr Farid Najafi

Street address

Shahid Beheshti boulevard, Kermanshah

City

Kermanshah

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, Kermanshah University of Medical Sciences and Health Services

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**

Emam Reza hospital

Full name of responsible person

Dr Dariush Afshari

Position

Neurologist/assistant professor/chairman

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

Sorkhelijeh, Kermanshah

City

Kermanshah

Postal code**Phone**

+98 83 1427 6309

Fax**Email**

dafshari@kums.ac.ir

Web page address

Person responsible for scientific inquiries

Contact**Name of organization / entity**

Emam Reza hospital

Full name of responsible person

Dr Dariush Afshari

Position

Neurologist/assistant professor/chairman

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

Sorkhelijeh, Kermanshah

City

Kermanshah

Postal code**Phone**

+98 83 1427 6309

Fax**Email**

dafshari@kums.ac.ir

Web page address

Person responsible for updating data

Contact**Name of organization / entity**

Emam Reza Hospitl

Full name of responsible person

dr nasrin moradian

Position

Resident of neurology

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

Sorkhelijeh, Kermanshah

City

Kermanshah

Postal code**Phone****Fax****Email****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