Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 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 hoursas 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, 3days after treatment and discharge time .finally, measure of global disability, amount of admition 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

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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 hoursof treatment initiation . Exclusion criteria:pregnancy-coma -heart block-chronic renal impairment- respiratory distress(24 < RR < 12 ﻭ o2sat < 90)- systolic blood pressure <90 or >220mmhg-

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
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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
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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