Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

Investigating the Effect of Erithropoietin on Neurologic Outcome in Brain Ischemic Patients

Protocol summary

Summary

The present study investigates the effect of Erithrpoietin on Neurologic outcomes in brain ischemic patients.The method used is Randomized Double Blind Multi-central Clinical Trial.The inclusion criterion is brain ischemic Patients between 18 to 75 years of age range who possess decline of consciousness level and have been hospitalized due to brain ischemia with the GCS<9.The exclusion criterion for the present study is those outside the age range mentioned plus Non-ischemic patients.The sample size is 50 participants : including 25 participants for observation and 25 for intervention.In intervention group, 4000 units of Erithropoietin .Subcutaneous is injected in the first 24 hour and 48 hour after the occurrence of Brain Ischemia. In the observation group,1cc of Normalsalin Serum Subcutaneous is injected. The conciuosness status of the patients is examined on the 7th, 14th, 21st, and 90th days .

General information

Acronym

kermanshah anesthesia study tes

IRCT registration information

IRCT registration number: **IRCT2013052713486N1**
Registration date: **2013-10-15, 1392/07/23**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-10-15, 1392/07/23

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences

Expected recruitment start date

2013-07-01, 1392/04/10

Expected recruitment end date

2014-01-30, 1392/11/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the Effect of Erithropoietin on Neurologic Outcome in Brain Ischemic Patients

Public title

Investigating the Effect of Erithropoietin on Neurologic Outcome in Brain Ischemic Patients

Purpose

Treatment

Inclusion/Exclusion criteria

The inclusion criterion is brain ischemic Patients between 18 to 75 years of age range who have been hospitilized in ICU wards and have GCS,9. The exclusion criterion for the present study is those outside the age range mentioned-from 18 to 75- Non-ischemic patients , poly-sythemic patients, and those having another brain-related diseases -GCS<9, malignant cancer, disordered liver function, and pregnant women.

Age

From **18 years** old to **75 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **50**

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 Medical Science University

Street address

Shahid Beheshti blvd.,

City

Kermanshah

Postal code

6714567915

Approval date

2013-01-17, 1391/10/28

Ethics committee reference number

48673

Health conditions studied

1

Description of health condition studied

Brain Ischemic Patients

ICD-10 code

G46

ICD-10 code description

Vascular syndromes of brain in cerebrovascular diseases

Primary outcomes

1

Description

Glasgow Coma Scale

Timepoint

before the interventoin- 7 days after the intervention-14,21, and 90 days of intervention

Method of measurement

Glasgow Coma Scale

2

Description

Glasgow Outcome Scale

Timepoint

before the interventoin- 7 days after the intervention-14,21, and 90 days of intervention

Method of measurement

Glasgow Outcome Scale

3

Description

National Institutes of Health Stroke Scale

Timepoint

before the interventoin- 7 days after the intervention-14,21, and 90 days of intervention

Method of measurement

National Institutes of Health Stroke Scale

Secondary outcomes

1

Description

Duration of hospitalization

Timepoint

The last day of hospitalization

Method of measurement

Numeration of hospitalizing days

Intervention groups

1

Description

In control group, 1cc of Normalsalin 0.9 percent is injected in 48 and 72 first hours.

Category

Placebo

2

Description

4000 units of Erithropoietin Subcutaneous is injected in the 48 and 72 first hours after the start of the signs

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Reza Clinical Center

Full name of responsible person

Darabi Ali, Anethesia Resident
Street address
University Blvd.,
City
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2

Recruitment center
Name of recruitment center
Farabi Clinical Center
Full name of responsible person
Darabi Ali, Anethesia Resident
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Kermanshah Medical Science University
Full name of responsible person
Dr. Farid Najafi, Research Deputy of University
Street address
University building no.2, Shahid Beheshti Blvd.,
City
Kermanshah
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Kermanshah Medical Science University
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

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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