

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Effect of deferoxamine on hemorrhagic transformation of middle cerebral artery stroke

Protocol summary

Summary

Objective: The main purpose of this study is evaluating the effect of deferoxamine on hemorrhagic transformation in patients with acute ischemic stroke in middle cerebral artery territory. Design: Randomized controlled clinical trial, single blinded, trial phase 2. Setting and conduct: 64 patients with acute ischemic stroke in middle cerebral artery territory will select and randomly will divide into two treatment and control groups. Control group will receive routine treatment of stroke but treatment group will receive routine treatment plus IV infusion of deferoxamine(40 mg/kg/day for 3 days). Serum ferritin level in all patients will be measured in first (baseline) and fourth day and CT scan will be done on patient in fourth and seventh day. Inclusion criteria: Acute ischemic stroke in middle cerebral artery territory. Exclusion criteria: renal failure; hemorrhagic infarction; infarction in other arterial territory; coagulopathies and history of anticoagulant drugs; anemia. Intervention: Deferoxamine infusion. Main outcome: Reduction of hemorrhagic transformation.

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT2013111915444N2**
Registration date: **2014-11-12, 1393/08/21**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-11-12, 1393/08/21

Registrant information

Name

Ahmad Maghuli

Name of organization / entity

Ahvaz Jondishapur University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 1336 1984

Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2014-05-22, 1393/03/01

Expected recruitment end date

2015-02-18, 1393/11/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of deferoxamine on hemorrhagic transformation of middle cerebral artery stroke

Public title

Effect of deferoxamin on stroke

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Acute ischemic stroke in middle cerebral artery territory. Exclusion criteria: renal failure; hemorrhagic stroke; stroke in other arterial territory; coagulopathies and history of anticoagulant drugs; anemia

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **64**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

1

Registry name

-

Secondary trial Id

-

Registration date

empty

Ethics committees

1

Ethics committee

Name of ethics committee

"Ethics committee of Ahvaz Jondishapur University of Medical Sciences"

Street address

Jondishapur University of Medical Sciences, Golestan blvd

City

Ahvaz

Postal code

6135715794

Approval date

2013-11-02, 1392/08/11

Ethics committee reference number

ajums.REC.1392.164

Health conditions studied

1

Description of health condition studied

stroke

ICD-10 code

I63.5

ICD-10 code description

Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries

2

Description of health condition studied

intracerebral haemorrhage

ICD-10 code

I69.1

ICD-10 code description

Sequelae of intracerebral haemorrhage

Primary outcomes

1

Description

Serrum ferritin

Timepoint

First and fourth day of admission

Method of measurement

Microgram per litre with ferritin test kit

Secondary outcomes

1

Description

Hemorrhagic transformation

Timepoint

Fourth and seventh day

Method of measurement

CT scan

Intervention groups

1

Description

Intervention group: Deferoxamin, vial 500 mg, dose of 40 mg/kg/day, venous transfusion for 3 days

Category

Treatment - Drugs

2

Description

control group: without intervention

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Ahvaz Golestan hospital

Full name of responsible person

Ahmad Maghuli

Street address

Neurology ward, Golestan hospital, Golestan blvd

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Ahvaz Jondishapur
University of Medical Sciences

Full name of responsible person

Dr Nader Saki

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Central research center, Jondishapur University of
Medical Sciences, Golestan blvd

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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

Vice chancellor for research, Ahvaz Jondishapur
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

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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