

# 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

a.maghuli@ajums.ac.ir

##### 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

**Street address**

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

**City**

Ahvaz

**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**

Ahvaz Jondishapur University of Medical Sciences

**Full name of responsible person**

Ahmad Maghuli

**Position**

Medical Intern

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

Neurology ward, Golestan hospital, Golestan blvd

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**Web page address**

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## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**

Ahvaz Jondishapur University of Medical Sciences

**Full name of responsible person**

Seyed Ehsan Mohamadiani Nezhad

**Position**

Neurologist

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

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## Person responsible for updating data

#### Contact

**Name of organization / entity**

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**Full name of responsible person**

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

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**Web page address**

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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*