

Clinical Trial Protocol

Iranian Registry of Clinical Trials

22 Jul 2026

Effect of fast and slow intravenous streptokinase infusion on coronary re-perfusion in patients with acute myocardial infarction.

Protocol summary

Summary

The aim of this study was to determine of fast and slow intravenous streptokinase infusion effect on coronary re-perfusion in patients with acute myocardial infarction. This was a randomized clinical trial, So that 100 patients with acute myocardial infarction were randomly selected for the intervention and comparison in two groups, intervention group (fast or half-hour intravenous infusion) and control group (one-hour infusion or slow)(50 patients in each group). Inclusion criteria were: 1- acute myocardial infarction with any contraindication for streptokinase injection 2- Equal to or greater than one mm ST elevation in two contiguous leads and exclusion criteria were: 1- No ECG or echo to file.2- Not consent to participate in the study. Among 1.5 million units of streptokinase was administered to each patient in the two groups and ECG and Echo results before infusion and 6 hours after infusion and laboratory findings were recorded. Also Complications during and after injection were observed and recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201211205989N2**

Registration date: **2015-05-09, 1394/02/19**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-05-09, 1394/02/19

Registrant information

Name

Afrouz Mardi

Name of organization / entity

Ardabil University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Ardabil University of Medical Sciences

Expected recruitment start date

2010-05-22, 1389/03/01

Expected recruitment end date

2011-05-22, 1390/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of fast and slow intravenous streptokinase infusion on coronary re-perfusion in patients with acute myocardial infarction.

Public title

Effect of fast and slow intravenous streptokinase infusion on coronary re-perfusion.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 1- acute myocardial infarction with any contraindication for streptokinase injection 2-Equal to or greater than one mm ST elevation in two contiguous leads Exclusion criteria: 1-No ECG or echo to file 2-Not consent to participate in the study

Age

From **20 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample sizeTarget sample size: **100****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**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Ardabil University of Medical Sciences

Street address

Ardabil University of Medical Sciences-Daneshgah St- Ardabil-Iran

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Ardabil

Postal code

5618953121

Approval date

2010-04-26, 1389/02/06

Ethics committee reference number

8926/11/الف

Health conditions studied**1****Description of health condition studied**

myocardial infarction

ICD-10 code

I21

ICD-10 code description

myocardial infarction specified as acute or with a stated duration of 4 weeks (28 days) or less from onset

Primary outcomes**1****Description**

Coronary reperfusion

Timepoint

Before and 6 hours after infusion

Method of measurement

by decending of ST piece in ECG

Secondary outcomes**1****Description**

Cardiac complications

Timepoint

before injection and 6 hours after injection

Method of measurement

ECG

2**Description**

Hematologic effects

Timepoint

before injection and 6 hours after injection

Method of measurement

measurement of INR and PT

Intervention groups**1****Description**

Intervention was in how to infusion of 1/5 million unit of streptokinase with zikinase Brand owned company of Zist Daru Danesh, Intervention 1: Rapid infusion in 5% Dextrose at 30 minutes and

Category

Treatment - Drugs

2**Description**

Intervention 2: slowly infusion in 5% Dextrose at one hour.

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Imam Khomeini Hospital

Full name of responsible person

Dr Shokrdargahi Ahmad

Street address

Imam Khomeini Hospital- Ardabil-Iran

City

Ardabil

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ardabil University of Medical Sciences

Full name of responsible person

Dr Piri Hadi

Street address

Vice chancellor for research, Ardabil University of Medical Sciences

City

Ardabil

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Ardabil 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**

Ardabil University of Medical Sciences

Full name of responsible person

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Position

master science

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Position

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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