

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of the effects of high-dose atorvastatin and high-dose rosuvastatin on lipid profile in STEMI patients

Protocol summary

Study aim

Comparison of the effects of high-dose atorvastatin and high-dose rosuvastatin on lipid profiles in STEMI patients

Design

Patients were divided into two groups, one receiving high-dose atorvastatin and one high-dose rosuvastatin, both of which were standard MI treatments, and the effects of these two drugs on lipid profile were compared. Two parallel groups, non-blind, non-specific randomization

Settings and conduct

Patients undergoing PCI during the first 6 hours of STEMI (for the first time) patients admitted to the Emam Reza and Ghaem Hospital Emergency were measured on admission after receiving one month of high-dose atorvastatin or high-dose rosuvastatin. lipid profiles were measured and the effects of these two drugs on lipid profiles were compared.

Participants/Inclusion and exclusion criteria

STEMI patients (for the first time) undergoing PCI for the first 6 hours and Aged between 18 and 65 years old with informed consent to enter the research. Previous users of statin and those with a previous history of cardiac surgery and those who were candidates for CABG after PCI were excluded.

Intervention groups

Patients were divided into two groups , one group receiving high-dose atorvastatin and one high-dose rosuvastatin , both of which were standard MI treatments.

Main outcome variables

Effectiveness of high dose statin therapy on lipid profile in STEMI patients and comparison of the effect of high-dose atorvastatin and high-dose rosuvastatin

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20191217045767N1**

Registration date: **2020-10-11, 1399/07/20**

Registration timing: **retrospective**

Last update: **2020-10-11, 1399/07/20**

Update count: **0**

Registration date

2020-10-11, 1399/07/20

Registrant information

Name

Alireza Sabour Hasanzadeh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3893 5179

Email address

alirezasabour8895@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-12-21, 1398/09/30

Expected recruitment end date

2020-02-19, 1398/11/30

Actual recruitment start date

2019-12-21, 1398/09/30

Actual recruitment end date

2020-02-19, 1398/11/30

Trial completion date

2020-02-19, 1398/11/30

Scientific title

Comparison of the effects of high-dose atorvastatin and high-dose rosuvastatin on lipid profile in STEMI patients

Public title

Effects of statin on lipid profile in STEMI patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

STEMI patients (for the first time) who receive Primary PCI within the first 6 hours Age range 18 to 65 years Consent to enter the research project and complete the informed consent form

Exclusion criteria:

Previous history of statin use Patients with a previous history of cardiac surgery Patients who subsequently undergo PCI have been nominated for CABG

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **90**

Actual sample size reached: **92**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not 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 Mashhad University of Medical Sciences

Street address

Third Floor, No. 23, 4 Sayyad Shirazi Street, Vakil Abad Boulevard

City

Mashhad

Province

Razavi Khorasan

Postal code

9188993547

Approval date

2019-08-04, 1398/05/13

Ethics committee reference number

IR.MUMS.MEDICAL.REC.1398.301

Health conditions studied

1

Description of health condition studied

hyperlipidemia-acute myocardial infarction

ICD-10 code

I21

ICD-10 code description

Acute myocardial infarction

Primary outcomes

1

Description

lipid Profile (LDL, HDL, Total Cholesterol, Triglyceride)

Timepoint

At baseline and one month later

Method of measurement

blood test

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Atorvastatin 80 mg daily

Category

Treatment - Drugs

2

Description

Intervention group: Rosuvastatin 40 mg daily

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital of Mashhad

Full name of responsible person

Ali Eshraqi

Street address

Imam Reza Square

City

mashhad

Province

Razavi Khorasan

Postal code

9137913316

Phone

+98 51 3854 3031

Email

2

Recruitment center

Name of recruitment center

Ghaem Hospital of Mashhad

Full name of responsible person

Ramin Khamenei Bagheri

Street address

Ahmad Abad Street

City

mashhad

Province

Razavi Khorasan

Postal code

9176699199

Phone

+98 51 3841 7451

Email

ghaemhospital@mums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Ali Eshraqi

Street address

Third Floor-Plaques23- Sayyad Shirazi4-Vakil Abad
Boulevard

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Email

alirezasabour8895@yahoo.com

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Mashhad University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Ali Eshraqi

Position

Associate Professor

Latest degree

Subspecialist

Other areas of specialty/work

Cardiology

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Person responsible for updating data

Contact

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

All potential data can be shared after unidentifiable
people

When the data will become available and for how long

Start of access period 6 months after printing results

To whom data/document is available

Researchers working in academic and scientific
institutions

Under which criteria data/document could be used

For further research and studies

From where data/document is obtainable

Keep in touch with alirezasabour8895@yahoo.co

What processes are involved for a request to access data/document

After the request has been submitted by the applicant, it
is first reviewed and responded to via email

Comments