

# 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  
**City**  
Mashhad  
**Province**  
Razavi Khorasan  
**Postal code**  
9188993547  
**Phone**  
+98 51 3893 5179  
**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  
**Street address**  
Third Floor- Plaques23-Sayyad St. Shirazi4-Vakil Abad  
Boulevard  
**City**  
Mashhad  
**Province**  
Razavi Khorasan  
**Postal code**  
9188993547  
**Phone**  
+98 51 3893 5179  
**Email**  
alirezasabour8895@yahoo.com

### Person responsible for scientific 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  
**Street address**  
Third Floor-Plaques23- Sayyad St. Shirazi4-Vakil Abad  
Boulevard  
**City**  
Mashhad  
**Province**  
Razavi Khorasan  
**Postal code**  
9188993547  
**Phone**  
+98 51 3893 5179  
**Email**  
alirezasabour8895@yahoo.com

### Person responsible for updating data

#### 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

**Street address**

Third Floor- Plaque23-Sayyad St. Shirazi4-Vakil Abad  
Boulevard

**City**

Mashhad

**Province**

Razavi Khorasan

**Postal code**

9188993547

**Phone**

+98 51 3893 5179

**Email**

alirezasabour8895@yahoo.com

**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**