

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Effect of atorvastatin on mean platelet volume in new patients with hypercholesterolemia: a before-after clinical trial

Protocol summary

Summary

Objectives: To assess the effect of atorvastatin on mean platelet volume in new patients with hypercholesterolemia **Design:** a before-after clinical trial. **Setting and conduct:** The eligible patients with hypercholesterolemia who will refer to Shahid Beheshti Hospital during the study period will be enrolled into the trial. **Inclusion criteria:** Age of 18 to 65 years; new patients with hypercholesterolemia without history of treatment. **Exclusion criteria:** Thyroid disorders; hematologic disorders; sepsis; preeclampsia; diabetes; cardiovascular diseases; a history of major surgery or trauma in the past 2 weeks. **Intervention group:** Atorvastatin capsule 40 mg daily for 2 months. **Control group:** In comparison with before intervention. **Primary outcome:** Assessing serum cholesterol before intervention and 2 months later through laboratory test. **Randomization:** This is a before after trial without randomization. **Blinding:** Not possible.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201706089014N168**
Registration date: **2017-07-05, 1396/04/14**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-07-05, 1396/04/14

Registrant information

Name

Jalal Poorolajal

Name of organization / entity

Department of Epidemiology & Biostatistics Hamadan

University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Vice-chancellor for Research and Technology, Hamadan
University of Medical Sciences

Expected recruitment start date

2016-12-30, 1395/10/10

Expected recruitment end date

2017-09-22, 1396/06/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of atorvastatin on mean platelet volume in new patients with hypercholesterolemia: a before-after clinical trial

Public title

Effect of atorvastatin on mean platelet volume in new patients with hypercholesterolemia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age of 18 to 65 years; new patients with hypercholesterolemia without history of treatment. **Exclusion criteria:** Thyroid disorders; hematologic disorders; sepsis; preeclampsia; diabetes; cardiovascular diseases; a history of major surgery or trauma in the past 2 weeks.

Age

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

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Randomization: This is a before after trial without randomization. Blinding: Not possible.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

Street address

Vice-chancellor for Research the Technology,
Hamadan University of Medical Sciences, Shahid
Fahmideh Ave

City

Hamadan

Postal code

6517838695

Approval date

2016-12-24, 1395/10/04

Ethics committee reference number

IR.UMSHA.REC.1395.425

Health conditions studied

1

Description of health condition studied

Hypercholesterolemia

ICD-10 code

E78.0

ICD-10 code description

Pure hypercholesterolaemia

Primary outcomes

1

Description

Assessing serum cholesterol

Timepoint

before intervention and 2 months later

Method of measurement

through laboratory test

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Atorvastatin capsule 40 mg daily for 2 months.

Category

Treatment - Drugs

2

Description

Control group: In comparison with before intervention.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Hospital

Full name of responsible person

Roya Khazaie

Street address

Shahid Beheshti Hospital, Eram Ave.

City

Hamadan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellor for Research and Technology,
Hamadan University of Medical Sciences

Full name of responsible person

Dr Saeid Bashirian

Street address

Hamadan University of Medical Sciences, Shahid
Fahmideh Ave

City

Hamadan

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 and Technology, Hamadan 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**

Shahid Beheshti Hospital

Full name of responsible person

Roya Khazaie

Position

Medical Student

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

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Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Shahid Beheshti Hospital

Full name of responsible person

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Position

Pathologist

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Department of Epidemiology

Full name of responsible person

Dr Jalal Poorolajal

Position

Associate Professor

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Web page address**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*