Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

The effect of atorvastatin on the level of high sensitive C reactive protein and right ventricular function in chronic obstructive pulmonary disease patients

Protocol summary

Summary

objective:The effect of atorvastatin on the level of inflammatory marker and right ventricular function in chronic obstructive pulmonary disease patients design:study groups: chronic obstructive pulmonary disease patients; third phase, sample size: 50; blinding: double blind; randomization: randomized; single center. Setting and conduct: for evaluating the right ventricle we used longitudinal systolic strain / strain rate echocardiography. Participants including major eligibility criteria: having stable chronic obstructive pulmonary disease for at least 3 month. Intervention: giving 40 milligram atorvastatin to 25 patients and placebo to other group main outcome measures (primary and secondary outcome variables): right ventricular size; pulmonary artery pressure; level of high sensitive C reactive protein

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201108177356N1**
Registration date: **2015-09-21, 1394/06/30**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-09-21, 1394/06/30

Registrant information

Name

Hoorak Poorzand

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 51 3802 2753

Email address

poorzandh@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Mashhad University of Medical Sciences

Expected recruitment start date

2011-04-21, 1390/02/01

Expected recruitment end date

2013-03-18, 1391/12/28

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of atorvastatin on the level of high sensitive C reactive protein and right ventricular function in chronic obstructive pulmonary disease patients

Public title

The effect of atorvastatin on the level of inflammatory marker and right ventricular function in chronic obstructive pulmonary disease patients

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: having stable chronic obstructive pulmonary disease for at least 3 month exclusion criteria: having coronary artery disease, using medication for reducing lipid profile; having atrial fibrilation rhythm; having active liver disease; having

active infection; having malignancy; having connective tissue diseases

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

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

Ghoreishi building, Number 30, Daneshgah street, Mashhad

City

Mashhad

Postal code

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

IR.MUMS.REC.1389.81

Health conditions studied

1

Description of health condition studied

chronic obstructive pulmonary disease

ICD-10 code

ICD-10-CM

ICD-10 code description

بیماری انسدادی مزمن ریه،غیرمشخص قابل تعمیم به بیماری انسدادی مزمن راه هوايي غيراختصاصي يا بيماری انسدادی مزمن ریه غیراختصاصي

Primary outcomes

1

Description

right ventricle systolic function

Timepoint

3 months after intervention

Method of measurement

tissue duppler and speckle tracking echocardiography

Secondary outcomes

1

Description

High sensitive C reactive protein

Timepoint

3 months after intervention

Method of measurement

blood sample

Intervention groups

1

Description

atorvastatin abidi company, 40 milligram, once a day, 3 month

Category

Treatment - Drugs

2

Description

placebo abidi company, 40 milligram, once a day, 3 month

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

cardiology ward of Imam Reza hospital

Full name of responsible person

Hoorak Poorzand

Street address

Mashhad- Doctora street- Imam Reza square- cardiology ward of Imam Reza hospital

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for research of Mashhad University of Medical Sciences

Full name of responsible person

Hoorak Poorzand

Street address

Mashhad University of Medical Sciences, Azadi squre, Mashhad

City

Mashhad

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 of Mashhad 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

Mashhad University of Medical Sciences

Full name of responsible person

Dr Hoorak Poorzand

Position

Assistant proffesor of cardiology. Echocardiologist

Other areas of specialty/work

Street address

Cardiology ward, Imam Reza hospital, Imam Reaza square, Mashhad

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Full name of responsible person

Dr Hoorak Poorzand

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Other areas of specialty/work

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Person responsible for updating data

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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