

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jul 2026

Investigation of The effects of statins on pulmonary artery pressure in the patients with chronic obstructive pulmonary disease

Protocol summary

Summary

Chronic obstructive pulmonary disease is the fourth leading cause of death in the world and more than ten million people caught the disease in America. Due to the importance of chronic obstructive pulmonary disease in public health around the world, we aimed to investigate The effects of statins on pulmonary artery pressure in the patients with chronic obstructive pulmonary disease. This triple blind, randomized control trials will perform on 21 COPD patients with atorvastatin treatment and 21 COPD patients without receiving any treatment who attended to Vali-Asr hospital, Birjand, East of Iran 2016. Inclusion criteria were as follow: no previous use of statins, Performing CBC, lipid profile, LTF, absence of liver disease, FEV1<80% and FEV1/FVC<70%. Also, patients excluded for the following reasons: discontinuation of statin therapy during the study, having advanced heart disease, the advent of statin therapy complications, long-term use of corticosteroid and death. Both groups will tested with echocardiography for presence of pulmonary hypertension by a cardiologist before taking atorvastatin and their pulmonary artery pressure will measured at baseline. In addition, Spirometry will perform in both groups. Case group receive 40mg statins per day for six month (24 weeks). At the end of this study, patients evaluate by spirometry and echocardiography.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016042527594N1**
Registration date: **2016-06-26, 1395/04/06**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-06-26, 1395/04/06

Registrant information

Name

Morteza Hajhosseini

Name of organization / entity

Birjand University of Medical sciences

Country

Iran (Islamic Republic of)

Phone

+98 937 625 0645

Email address

m.hajhosseini@bums.ac.ir

Recruitment status

Recruitment complete

Funding source

Birjand University of Medical Sciences

Expected recruitment start date

2016-05-15, 1395/02/26

Expected recruitment end date

2016-11-15, 1395/08/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigation of The effects of statins on pulmonary artery pressure in the patients with chronic obstructive pulmonary disease

Public title

Effects of statins on pulmonary artery pressure in the patients with chronic obstructive pulmonary disease

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: no previous use of statins; Performing CBC; lipid profile; LTF; absence of liver disease; FEV1<80%; FEV1/FVC<70%. Exclusion criteria: discontinuation of statin therapy during the study; having advanced heart disease; the advent of statin therapy complications; long-term use of corticosteroid; death

Age

From **40 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **42**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Triple 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 Birjand University of Medical sciences

Street address

Birjand University of Medical sciences, Ayatollah Ghafari ST, Birjand

City

Birjand

Postal code

Approval date

2015-01-26, 1393/11/06

Ethics committee reference number

03111393

Health conditions studied

1

Description of health condition studied

Chronic Obstructive Pulmonary Disease

ICD-10 code

J44

ICD-10 code description

Chronic obstructive pulmonary disease

Primary outcomes

1

Description

Pulmonary Artery Pressure changes

Timepoint

Before and After drug use

Method of measurement

Echocardiography

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Receiving statin 40 miligram per day for six month

Category

Treatment - Drugs

2

Description

Control group: Receiving nothing

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Valiasr Hospital

Full name of responsible person

Anahita Aryan

Street address

Valiasr Hospital, Ayatollah Ghafari ST, Birjand

City

Birjand

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Birjand University of Medical sciences

Full name of responsible person

Gholamreza Sharifzade

Street address

Birjand University of Medical sciences, Ayatollah Ghafari ST, Birjand

City

Birjand

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, Birjand 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**

Birjand University of Medical sciences

Full name of responsible person

Anahita Aryan

Position

Resident of Internal Medicine

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

Birjand University of Medical sciences, Ayatollah Ghafari ST, Birjand

City

Birjand

Postal code**Phone**

+98 56 3244 3000

Fax**Email**

dr.arian@yahoo.com

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

Valiasr Hospital

Full name of responsible person

Toba Kazemi

Position

MD

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

Valiasr Hospital, Ayatollah Ghafari ST, Birjand

City

Birjand

Postal code**Phone**

+98 56 3244 3000

Fax**Email**

drtooba.kazemi@gmail.com

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Birjand University of Medical sciences

Full name of responsible person

Morteza Hajihosseini

Position

MSc

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

Birjand University of Medical sciences, Ayatollah Ghafari ST, Birjand

City

Birjand

Postal code**Phone**

+98 56 3244 3000

Fax**Email**

mortezahaji87@gmail.com

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*