Clinical Trial Protocol
Iranian Registry of Clinical Trials

28 Jun 2026

Efficacy of Atorvastatin on 90 patients in-hospital outcome of COVID-19 infection in boali hospital of Qazvin

Protocol summary

Study aim
Comparison of placebo and atorvastatin in improving clinical and laboratory symptoms of hospitalized patients with COVID-19

Design
The study will be conducted as a randomized controlled double-blind clinical trial. 90 patients with coronary infection (confirmed by CT or PCR) will be divided into selected atorvastatin 40 mg tablets once a day in selected hospitals of Qazvin and the control group will receive placebo for 7 days. The obtained results will be analyzed by SPSS software version 25. The quantitative variables will be presented as median ± SD

Settings and conduct
This study will be performed on 90 patients admitted with clinical or paraclinical diagnosis of Covid-19. Based on these criteria, randomly selected patients will be divided into two approximately equal groups.The randomization method will be using random number generation software

Participants/Inclusion and exclusion criteria
Hospitalization in corona-related wards Confirmation of the disease by CT scan or PCR No history of liver failure

Intervention groups
They will be divided into two groups receiving atorvastatin 40 mg tablets once a day and the control group receiving placebo for 7 days.

Main outcome variables
Duration of hospitalization; Blood oxygen(sa o2); Intubation; Mortality rate; need of icu

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20200906048638N1**
Registration date: **2021-02-01, 1399/11/13**
Registration timing: **registered_while_recruiting**
Last update: **2021-02-01, 1399/11/13**
Update count: **0**

Registration date
2021-02-01, 1399/11/13

Registrant information

Name
rozita bahadori

Name of organization / entity

Country
Iran (Islamic Republic of)

Phone
+98 28 3333 3036

Email address
bahadorirozana@gmail.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2020-12-21, 1399/10/01

Expected recruitment end date
2021-04-19, 1400/01/30

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Efficacy of Atorvastatin on 90 patients in-hospital outcome of COVID-19 infection in boali hospital of Qazvin

Public title
Efficacy of Atorvastatin on in-hospital outcome of COVID-19 infection

Purpose
Health service research

Inclusion/Exclusion criteria

Inclusion criteria:

Hospitalization in corona-related wards Confirmation of the disease by CT scan or PCR No history of liver failure

Exclusion criteria:

Having non-pulmonary fungal and bacterial infections (non-pulmonary, infectious bed sores, etc.) Lack of patient consent to participate in the study Receive treatments other than chloroquine, azithromycin and ceftriaxone History of receiving statins Hypersensitivity reaction or any contraindication to the use of atorvastatin

Age

No age limit

Gender

Both

Phase

4

Groups that have been masked

- Participant
- Outcome assessor

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

In this trial, random sequence generation software was used for randomization. In this way, information such as sample size and number of groups is given to the software and the software provides a table of random numbers, each of which is randomly assigned the letters A and B. The output of the male is a table, in which 90 people are randomly placed in groups A and B.

Blinding (investigator's opinion)

Double blinded

Blinding description

Patients included in the study did not know how to give placebo and the main drug, and only how to work and obtain consent to participate in the study were explained to them.

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Qazvin University of Medical Sciences

Street address

naderi,boalisina hospital

City

qazvin

Province

Qazvin

Postal code

3413786167

Approval date

2020-08-15, 1399/05/25

Ethics committee reference number

ir.qums.rec.1399.171

Health conditions studied

1

Description of health condition studied

coronavirus/ststin

ICD-10 code

U07.1

ICD-10 code description

Clinically-epidemiologically diagnosed COVID-19

Primary outcomes

1

Description

crp

Timepoint

the first, third, fifth day

Method of measurement

questionnaire

2

Description

wbc

Timepoint

the first, third, fifth day

Method of measurement

questionnaire

3

Description

fever

Timepoint

the first, third, fifth day

Method of measurement

questionnaire

4

Description

tachikardia

Timepoint

the first, third, fifth day

Method of measurement

questionnaire

5

Description

heart rate

Timepoint
the first, third, fifth day
Method of measurement
questionnaire

6

Description
bp
Timepoint
the first, third, fifth day
Method of measurement
questionnaire

7

Description
sa o2
Timepoint
the first, third, fifth day
Method of measurement
questionnaire

8

Description
bs
Timepoint
the first, third, fifth day
Method of measurement
questionnaire

9

Description
plt
Timepoint
the first, third, fifth day
Method of measurement
questionnaire

Secondary outcomes

1

Description
Quality of life score
Timepoint
The first, third and fifth day
Method of measurement
questionnaire

Intervention groups

1

Description
Intervention group:atrovastatin 40 mg tablets once a day for 7 days abidi company
Category
Treatment - Drugs

2

Description
Control group:plasibo once a day for 7 days porsina company
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
bualisina hospital of qazvin
Full name of responsible person
abaas allami
Street address
Naderi,bualisina hospital
City
Qazvin
Province
Qazvin
Postal code
3413786165
Phone
+98 28 3333 2930
Email
Allami9@yahoo.com

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Qazvin University of Medical Sciences
Full name of responsible person
mahnaz abbasi
Street address
pardis Complex of Qazvin University of Medical Sciences - Shahid Babaei Medical School, second floor, room number 201
City
Qazvin
Province
Qazvin
Postal code
3413786165
Phone
+98 28 3323 9252
Email
mabasi@qums.ac.ir
Web page address
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Qazvin University of Medical Sciences
Proportion provided by this source

100

Public or private sector
Public

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
Qazvin University of Medical Sciences

Full name of responsible person
ass llami

Position
Professor

Latest degree
Specialist

Other areas of specialty/work
Infectious diseases

Street address
Naderi,bualisina hospital

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Postal code
3413786165

Phone
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Email
Allami9@yahoo.com

Person responsible for scientific inquiries

Contact

Name of organization / entity
Qazvin University of Medical Sciences

Full name of responsible person
abass allami

Position
Professor

Latest degree
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Person responsible for updating data

Contact

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Position
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Email
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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
Undecided - It is not yet known if there will be a plan to make this available

Title and more details about the data/document
If the Vice Chancellor of the University agrees, all data can be shared after identifying individuals

When the data will become available and for how long
From 6 months after printing the results

To whom data/document is available
If the Vice Chancellor of the University agrees, at the request of another researcher to metanize the arrest set, acceptable data will be provided to another researcher.

Under which criteria data/document could be used
If the Vice Chancellor of the University agrees, at the request of another researcher to metanize the arrest set, acceptable data will be provided to another researcher.

From where data/document is obtainable
If the Vice Chancellor of the University agrees, at the request of another researcher to metanize the arrest set,

acceptable data will be provided to another researcher.

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

If the Vice Chancellor of the University agrees, at the request of another researcher to metanize the arrest set, acceptable data will be provided to another researcher.

Comments