

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jun 2026

Evaluation of the effect of quercetin on the effectiveness of antiviral drug regimen in patients with COVID19

Protocol summary

Study aim

Evaluation of the effect of Quercetin on the effectiveness of antiviral drug regimen in patients with COVID19

Design

This study is a two arm parallel groups clinical trial that will be done in Ahvaz hospital. Randomization is done through block method. Sample size of this study is 60 patients that divided equally into two groups include intervention and control group . Intervention and control groups treat with the same method, except the intervention group that receive 2 Tabs Quercetin from Jarrow Formulas. This a phase 3 clinical trial. In both groups clinical outcome and side effects are evaluated.

Settings and conduct

A randomized clinical trial that will be done in Ahvaz hospital. According to inclusion and exclusion criteria, patients are randomly divided into 2 groups. Both groups receive the same treatment. Intervention group will receive 2 Tabs Quercetin from Jarrow Formulas daily until 7 days. Blinding is not done in our study.

Participants/Inclusion and exclusion criteria

Polymerase chain reaction (PCR) confirmed infection with COVID19 Lung involvement confirmed with chest imaging Hospitalized with Or Cough Willingness of study participant to accept randomization to any assigned treatment arm Acceptance of non-participation in another study before the 28th day of the study

Intervention groups

Intervention group: 2 Tabs Quercetin from Jarrow Formulas, daily until 7days. Both case and control group will be received routine drugs.

Main outcome variables

Time to clinical recovery, respiratory signs, Intubation rate.

General information

Reason for update

In order to more accurately record clinical trial

information, some changes in the study Design, Inclusion and exclusion criteria have been updated. The ICD-10 code description was revised

Acronym

IRCT registration information

IRCT registration number: **IRCT20200419047128N2**

Registration date: **2020-04-24, 1399/02/05**

Registration timing: **prospective**

Last update: **2021-07-04, 1400/04/13**

Update count: **1**

Registration date

2020-04-24, 1399/02/05

Registrant information

Name

Ali Khodadadi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3331 1061

Email address

akhodadadi2@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-04-29, 1399/02/10

Expected recruitment end date

2020-05-09, 1399/02/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of quercetin on the effectiveness of antiviral drug regimen in patients with COVID19

Public title

Quercetin in COVID19

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Polymerase chain reaction (PCR) confirmed infection with COVID19 Lung involvement confirmed with chest imaging Hospitalized with: Fever (axillar or oral temperature ≥ 38.0 °centigrade(C) or ≥ 38.6 °centigrade tympanic or rectal) Or Cough Willingness of study participant to accept randomization to any assigned treatment arm Acceptance of non-participation in another study before the 28th day of the study

Exclusion criteria:

Autoimmune diseases (lupus, MS, etc.) Hepatic failure Hepatit B, C, pregnant and lactating women Not consent to participate in the study

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: 60

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are divided into two Therapeutic groups by random method and used 6 blocks method. Individuals are the randomization unit , making a random sequence is by using statistical software(WinPepi11.0). Allocation concealment is by assigning unique codes

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 Ahvaz University of medical

Street address

Golestan

City

Ahvaz

Province

Khuzestan

Postal code

15794-61357

Approval date

2020-04-18, 1399/01/30

Ethics committee reference number

IR.AJUMS.REC.1399.087

Health conditions studied

1

Description of health condition studied

COVID19

ICD-10 code

U07.1

ICD-10 code description

Corona virus infection, unspecified

Primary outcomes

1

Description

Viral diagnostic test

Timepoint

The first day of the study and the end of the study (14th)

Method of measurement

Polymerase chain reaction

Secondary outcomes

1

Description

Blood oxygen saturation percentage

Timepoint

Before and 4-7 days after starting treatment

Method of measurement

Pulse oximeter

2

Description

Cough rate

Timepoint

Before and 7 days after starting treatment

Method of measurement

Physical examination

3

Description

C-Reactive Protein (CRP)

Timepoint

Before and 7 days after starting treatment

Method of measurement

ELISA (enzyme-linked immunosorbent assay)

4

Description

IL1

Timepoint

Before and 7 days after starting treatment

Method of measurement

ELISA (enzyme-linked immunosorbent assay)

5

Description

IL6

Timepoint

Before and 7 days after starting treatment

Method of measurement

ELISA (enzyme-linked immunosorbent assay)

6

Description

CBC

Timepoint

Before and 7 days after starting treatment

Method of measurement

Cell Counter

Intervention groups

1

Description

Intervention group: 2 Tabs Quercetin(500mg) from Jarrow Formulas , daily until 7 days. Both case and control group will be received routine drugs.

Category

Treatment - Drugs

2

Description

Control group: this group doesn't receive extra drugs. Both groups receive routine drugs.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Razi hospital

Full name of responsible person

Ali Khodadadi

Street address

Razi hospital, Felestin Ave, Amanieh Ave

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6155819953

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akhodadadi2@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Mohamad Badavi

Street address

Main building, Ahvaz University of Medical Science, Golestan

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Ahvaz

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6135539345

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+98 61 3311 3815

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Badavi-m@ajums.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Ahvaz 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

Ahvaz University of Medical Sciences

Full name of responsible person

Ali khodadadi

Position

Associate Professor

Latest degree

Ph.D.

Other areas of specialty/work

Immunology

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Person responsible for scientific inquiries

Contact

Name of organization / entity
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

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

Study Protocol

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

Statistical Analysis Plan

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

Informed Consent Form

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

Clinical Study Report

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

Analytic Code

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

Data Dictionary

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