

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

Evaluating the effect of Cyclosporine in prognosis and clinical improvement in patients with COVID-19: A Randomized Clinical Trial Study

Protocol summary

Study aim

Determining the effect of cyclosporine on clinical improvement and prognosis of patients with Covid-19

Design

Parallel single-blind randomized clinical trial study

Settings and conduct

Eligible patients hospitalized in Sina Hospital are randomly assigned to one of two groups after receiving informed consent. The objectives of the study, possible beneficial effects and possible side effects for the patients participating in the study or their relatives will be explained. Patients using balanced blocks randomization are divided into two groups including receiving standard treatment of Covid-19 and standard treatment + cyclosporine. Given that patients will be unaware of the type of medication used, therefore, the study will be single blind.

Participants/Inclusion and exclusion criteria

18-60 years patients with PCR positive test, with acute respiratory infectious symptoms and severe lung involvement, will be included in the study and pregnant or lactating women patients or patients with cancer or intubated exclude from the study.

Intervention groups

Intervention group: Receiving routine treatment (according to national protocol) + Cyclosporine and Control group: Receiving routine treatment (according to national protocol)

Main outcome variables

Clinical outcome and prognosis of patients with Covid-19

General information

Reason for update

Removing placebo

Acronym

IRCT registration information

IRCT registration number: **IRCT20200426047206N3**

Registration date: **2020-07-21, 1399/04/31**

Registration timing: **prospective**

Last update: **2020-07-25, 1399/05/04**

Update count: **1**

Registration date

2020-07-21, 1399/04/31

Registrant information

Name

Salman Khazaei

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 81 3838 0548

Email address

salman.khazaei61@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-07-22, 1399/05/01

Expected recruitment end date

2020-11-21, 1399/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluating the effect of Cyclosporine in prognosis and clinical improvement in patients with COVID-19: A Randomized Clinical Trial Study

Public title

The effect of Cyclosporine in prognosis and clinical improvement in patients with COVID-19

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Positive PCR test Age between 18-60 years patient with acute respiratory infectious symptoms and lung involvement non-intubated patients

Exclusion criteria:

Allergy to Cyclosporin Not willing to participate Patients with cancer Under treatment with immunosuppressor drugs Pregnancy or breastfeeding

Age

From **18 years** old to **60 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant

Sample size

Target sample size: **48**

Randomization (investigator's opinion)

Randomized

Randomization description

For this purpose, we will use the BalancedBlock Randomization method (block size=4). Random allocation software will be used for this purpose. At first, we prepare two sheets of paper. We write "Intervention" on a paper and "Standard treatment" on another. Mix the sheets together and place them on the desk drawer. With the referral of each of the eligible patients, one of the cards will be drawn randomly and based on this drawn card, it will be assigned to one of the two groups. It should be noted that the drawn sheets will not be returned to the drawer until all four sheets have been removed. After all four sheets are drawn randomly, all the sheets are returned to the drawer and the above operation will be continued for the next four patients until the desired sample size is reached.

Blinding (investigator's opinion)

Single blinded

Blinding description

We describe two treatment groups for the patients, but allocation to group are random and patients are not aware from allocation

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Hamadan University of Medical Sciences

Street address

Fahmideh Street

City

Hamadan

Province

Hamadan

Postal code

6517838778

Approval date

2020-07-11, 1399/04/21

Ethics committee reference number

IR.UMSHA.REC.1399.355

Health conditions studied

1

Description of health condition studied

COVID-19 disease

ICD-10 code

U07.1

ICD-10 code description

COVID-19

Primary outcomes

1

Description

Change oxygenation

Timepoint

Daily for two weeks

Method of measurement

pulse oximeter

2

Description

Creatinine clearance status

Timepoint

Days 2, 4 and 6

Method of measurement

laboratory exam

3

Description

Inflammatory factors

Timepoint

Days 1 and 7

Method of measurement

Flow Cytometry

4

Description

Number of days hospitalized in the ward

Timepoint

Seventh day onward

Method of measurement

day

5**Description**

Serum D.dimer

Timepoint

Days 1,3 and 7

Method of measurement

Enzymes

6**Description**

Serum ferritin level

Timepoint

Days 1,3 and 7

Method of measurement

laboratory test

7**Description**

TCD4+, TCD8+, B Cell

Timepoint

Days 1 and 7

Method of measurement

Flow Cytometry

8**Description**

CRP

Timepoint

Days 1 and 7

Method of measurement

mg/L

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: Patients receive low-dose cyclosporine for at least 7 days orally. Also, the routine treatments (The last national protocol for COVID-19 treatment) will be given to patients according to the physician's supervision.

Category

Treatment - Drugs

2**Description**

Control group: The routine treatments (The last national protocol for COVID-19 treatment) will be given to these

patients according to the physician's supervision.

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Sina Hospital

Full name of responsible person

Dr Fariba Keramat

Street address

Mirzadeh Eshghi Street

City

Hamadan

Province

Hamadan

Postal code

6516848741

Phone

+98 81 3827 4184

Email

faribakeramat@yahoo.com

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Hamedan University of Medical Sciences

Full name of responsible person

Saeed Bashirian

Street address

Fahmideh Street

City

Hamadan

Province

Hamadan

Postal code

6571838678

Phone

+98 81 3838 0717

Email

s_bashirian@yahoo.com

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

No

Title of funding source

Hamadan 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

+98 81 3838 0548

Fax
Email
behshadnaghshabrizi@yahoo.com

Person responsible for general inquiries

Contact

Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Salman Khazaei
Position
Assistance professor
Latest degree
Ph.D.
Other areas of specialty/work
Epidemiology
Street address
Fahmideh
City
Hamedan
Province
Hamadan
Postal code
6517838695
Phone
+98 81 3838 0548
Fax
Email
salman.khazaei61@gmail.com

Person responsible for updating data

Contact

Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Salman Khazaei
Position
Assistance professor
Latest degree
Ph.D.
Other areas of specialty/work
Epidemiology
Street address
Fahmideh
City
Hamedan
Province
Hamadan
Postal code
6517838695
Phone
+98 81 3838 0548
Fax
Email
salman.khazaei61@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Behshad Naghshtabrizi
Position
Associate Professor
Latest degree
Specialist
Other areas of specialty/work
Cardiology
Street address
Fahmideh
City
Hamedan
Province
Hamadan
Postal code
6517838695
Phone

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