

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

Evaluation of effect of Hemoperfusion in patients with COVID-19 in Hajar hospital, shahrekord

Protocol summary

Study aim

Determining the effectiveness of hemoperfusion in patients with COVID-19 disease in Hajar Hospital in Shahrekord

Design

Patients undergo hemoperfusion. Clinical signs and CT scans of the lungs are recorded continuously before and after hemoperfusion. And improvement of clinical findings and CT findings of the patient are evaluated. Each patient may need at least three hemoperfusions. Each perfusion period lasts about 4 hours.

Settings and conduct

ICU ward of Hajar Hospital in Shahrekord Patients undergo hemoperfusion. Clinical signs and CT scans of the lungs are recorded continuously before and after hemoperfusion. And improvement of clinical findings and CT findings of the patient are evaluated. Each patient may need at least three hemoperfusions. Each perfusion period lasts about 4 hours.

Participants/Inclusion and exclusion criteria

Patients with severe progressive pulmonary involvement Have a positive PCR test Patients who are currently under mechanical ventilation or will need it in the near future.

Intervention groups

Patients with COVID-19 undergo hemoperfusion.

Main outcome variables

Mortality rate, reduction of hospitalization days, CT scan indices

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210718051922N1**

Registration date: **2021-08-06, 1400/05/15**

Registration timing: **registered_while_recruiting**

Last update: **2021-08-06, 1400/05/15**

Update count: **0**

Registration date

2021-08-06, 1400/05/15

Registrant information

Name

Ahmad Raesi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 38 3222 0016

Email address

raesi.a@skums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-07-27, 1400/05/05

Expected recruitment end date

2021-10-27, 1400/08/05

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of effect of Hemoperfusion in patients with COVID-19 in Hajar hospital, shahrekord

Public title

Hemoperfusion in Covid 19

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients with severe progressive pulmonary involvement

Have a positive PCR test Patients who are currently under mechanical ventilation or will need it in the near future.

Exclusion criteria:

Patients with shock symptoms Patients with multiple organ failure

Age

From **18 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Shahrekord University of Medical Sciences

Street address

Parastar Aven.Hajar Hospital

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

8816754633

Approval date

2020-04-19, 1399/01/31

Ethics committee reference number

IR.SKUMS.REC.1399.030

Health conditions studied

1

Description of health condition studied

COVID19

ICD-10 code

B34.2

ICD-10 code description

Coronavirus infection, unspecified

Primary outcomes

1

Description

Mortality

Timepoint

End of study

Method of measurement

Patient file

2

Description

Number of hospitalization days

Timepoint

End of study

Method of measurement

Patient file

3

Description

CT scan indexes

Timepoint

Before the start of the study and the first day after hemoperfusion

Method of measurement

CT scan of the patient

Secondary outcomes

1

Description

Temperature

Timepoint

Days 1, 3, 7 and 12

Method of measurement

Thermometer

2

Description

O2 sat

Timepoint

Days 1, 3, 7 and 12

Method of measurement

Pulse oximetry

3

Description

WBC

Timepoint

Days 1, 3, 7 and 12

Method of measurement

Blood test

4

Description

Lym

Timepoint

Days 1, 3, 7 and 12

Method of measurement

Blood test

5

Description

Ferritin

Timepoint

Days 1, 3, 7 and 12

Method of measurement

Blood test

6

Description

Ast, Alt , Alkp

Timepoint

Days 1, 3, 7 and 12

Method of measurement

Blood test

7

Description

Mechanical ventilation

Timepoint

Before the intervention and the first dose after hemoperfusion

Method of measurement

Patient prognosis

Intervention groups

1

Description

Intervention group: Patients with COVID-19 undergo hemoperfusion.

Category

Treatment - Other

Recruitment centers

1

Recruitment center**Name of recruitment center**

Hajar Hospital, Shahrekord

Full name of responsible person

Ahmad Raesi

Street address

Parastar Aven

City

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Province

Chahar-Mahal-va-Bakhtiari

Postal code

8816754633

Phone

+98 38 3222 0016

Email

raesi.a@skums.ac.ir

Sponsors / Funding sources

1

Sponsor**Name of organization / entity**

Shahre-kord University of Medical Sciences

Full name of responsible person

Mehraban Sadeghy

Street address

Parastar Aven

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

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Email

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

Yes

Title of funding source

Shahre-kord 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**

Shahre-kord University of Medical Sciences

Full name of responsible person

Ahmad Raesi

Position

Internal specialist

Latest degree

Specialist

Other areas of specialty/work

Internal Medicine

Street address

Parastar aven

City

Sahrekord

Province

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Shahre-kord University of Medical Sciences

Full name of responsible person

Ahmad Raesi

Position

Internal specialist

Latest degree

Specialist

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Shahre-kord University of Medical Sciences

Full name of responsible person

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is 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

No - There is not a plan to make this available

Informed Consent Form

No - There is not 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

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

Only part of the data such as information about the main outcome or the like can be shared.

When the data will become available and for how long

2022-2023

To whom data/document is available

The data will be available only to researchers working in academic and scientific institutions

Under which criteria data/document could be used

I have not decided yet

From where data/document is obtainable

I have not decided yet

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

I have not decided yet

Comments