

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Feb 2026

Plasmapheresis in the treatment of patients with COVID-19

Protocol summary

Study aim

Determining the effectiveness of plasmapheresis treatment in the treatment of patients with Coronavirus disease (COVID-19)

Design

Clinical trial, no control group, no randomization, phase 2 design of 100 patients

Settings and conduct

The study will be performed in critically ill patients with a diagnosis of Covid-19 disease admitted to the intensive care unit of Hazrat Rasoul Akram Hospital in Tehran in 1399. Symptoms will be monitored before and after plasmapheresis.

Participants/Inclusion and exclusion criteria

Coronavirus disease (COVID-19) admitted in the intensive care unit (ICU)

Intervention groups

Plasmaphereses at a dose of 60 mg per kg daily up to four doses

Main outcome variables

The status of fever, cough, dyspnea, oxygen saturation, lactate dehydrogenase, sedimentation and C-reactive protein in patients before and after plasmapheresis will be assessed.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180316039112N3**
Registration date: **2021-02-01, 1399/11/13**
Registration timing: **retrospective**

Last update: **2021-02-01, 1399/11/13**

Update count: **0**

Registration date

2021-02-01, 1399/11/13

Registrant information

Name

Tayeb Ramim

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 6312 0000

Email address

tayebiramim@ut.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-06-21, 1399/04/01

Expected recruitment end date

2020-12-21, 1399/10/01

Actual recruitment start date

2020-06-21, 1399/04/01

Actual recruitment end date

2020-12-21, 1399/10/01

Trial completion date

2020-12-21, 1399/10/01

Scientific title

Plasmapheresis in the treatment of patients with COVID-19

Public title

Plasmapheresis in the treatment of patients with COVID-19

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

COVID-19

Exclusion criteria:

Patient dissatisfaction with inclusion in the study

Age

From **18 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample sizeTarget sample size: **100**Actual sample size reached: **120****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 Iran University of Medical Sciences

Street address

Rasool Akram Hospital, Mazyar Mansori Ave, Satar Khan Ave.

City

Tehran

Province

Tehran

Postal code

1445613131

Approval date

2020-09-16, 1399/06/26

Ethics committee reference number

IR.IUMS.REC.1399.550

Health conditions studied**1****Description of health condition studied**

coronavirus disease (covid-19)

ICD-10 code

B97.2

ICD-10 code description

Coronavirus as the cause of diseases classified elsewhere

Primary outcomes**1****Description**

Percentage of blood oxygen saturation

Timepoint

Before and after the intervention

Method of measurement

Pulse oximetry

Secondary outcomes

empty

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

Intervention group: Plasmapheresis with a dose of 40 cc per kilogram daily up to four doses

Category

Treatment - Other

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

Rasool Akram hospital

Full name of responsible person

Tayeb Ramim

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

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https://iums.ac.ir/

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Iran 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

Iran University of Medical Sciences

Full name of responsible person

Tayeb Ramim

Position

Deputy of Research and Education

Latest degree

Medical doctor

Other areas of specialty/work

Epidemiology

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Person responsible for updating data

Contact

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no more information

Study Protocol

No - There is not 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

No - There is not 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