

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

13 Jun 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 size**Target 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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Rasoul-e-Akram Hospital, Mazar-i-Mansouri St., Sattarkhan Street

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

Iran University of Medical Sciences

**Full name of responsible person**

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**Web page address**

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 scientific inquiries

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## Person responsible for updating data

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**Position**

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**Latest degree**

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**Email**

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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