

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

29 Jun 2026

### Comparison of the effect of albumin administration on attenuation, lung involvement and blood oxygenation of patients with Covid-19 admitted to intensive care unit with albumin level less than 3 and 2 g dl ( Clinical Trial )

#### Protocol summary

##### Study aim

Determining the effectiveness of albumin administration on attenuation, lung involvement and blood oxygen in patients with covid-19 hospitalized in the intensive care unit with an albumin level less than 3 grams per deciliter

##### Design

A non-randomized double-blind clinical trial with intervention and control groups, sample size of 52 patients, trial phase 2-3, and allocation of study groups will be conducted in parallel.

##### Settings and conduct

52 participants with entry conditions, among the patients with covid-19 hospitalized in the special care department referring to Shahid Madani Hospital Karaj in 2022, are divided into two control and intervention groups. For the study subjects, before the random assignment, it is explained how the work process is and they may receive one of the two treatments randomly, so the patient and Outcome assessor will not know which group she is in.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Age 18 years and above; PCR test positive; Observation of lung involvement in CT scan; Hypoxia (arterial oxygen saturation less than 90%)  
Exclusion criteria: Hypoxia (arterial oxygen saturation more than 90%)

##### Intervention groups

Intervention group: After albumin reaches a level of less than 3 grams per deciliter, albumin will be administered in the amount of three vials daily and every eight hours for seven days. Control group: If the albumin drops to less than 2 grams per deciliter, the same treatment as the intervention group will be performed.

##### Main outcome variables

Mortality rate; lung involvement rate; blood oxygen saturation percentage.

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20221011056144N1**

Registration date: **2022-12-14, 1401/09/23**

Registration timing: **registered\_while\_recruiting**

Last update: **2022-12-14, 1401/09/23**

Update count: **0**

##### Registration date

2022-12-14, 1401/09/23

##### Registrant information

##### Name

Afsaneh Zandi

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 26 3428 7383

##### Email address

afsanehzandi24@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2022-12-10, 1401/09/19

##### Expected recruitment end date

2023-02-18, 1401/11/29

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

### Scientific title

Comparison of the effect of albumin administration on attenuation, lung involvement and blood oxygenation of patients with Covid-19 admitted to intensive care unit with albumin level less than 3 and 2 g dl ( Clinical Trial )

### Public title

The effect of albumin administration on mortality rate, lung involvement rate and blood oxygen in patients with covid-19 hospitalized in the intensive care unit

### Purpose

Treatment

### Inclusion/Exclusion criteria

#### Inclusion criteria:

Age 18 years and above PCR test positive Observation of lung involvement in CT scan Hypoxia (arterial oxygen saturation less than 90%) Patients with consent to participate in the study

#### Exclusion criteria:

Hypoxia (arterial oxygen saturation more than 90%)

### Age

From **18 years** old

### Gender

Both

### Phase

2-3

### Groups that have been masked

- Participant
- Outcome assessor

### Sample size

Target sample size: **52**

### Randomization (investigator's opinion)

N/A

### Randomization description

### Blinding (investigator's opinion)

Double blinded

### Blinding description

For the study subjects, before the random assignment, it is explained how the work process is and they may receive one of the two treatments randomly, and the drug used for the subjects is not known in advance, the form of the intervention drug and placebo and also, the frequency and times of administration of these two will be similar so that it is not possible for the patient and Outcome assessor to distinguish them from each other, so the patient and Outcome assessor will not know which group she is in.

### Placebo

Not used

### Assignment

Parallel

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Alborz University of Medical Sciences

##### Street address

Second floor, Deputy of Research and Technology, Saffarian Alley, 45 meters from Golshahr, Karaj.

##### City

Karaj

##### Province

Alborz

##### Postal code

3149779453

#### Approval date

2022-11-11, 1401/08/20

#### Ethics committee reference number

IR.ABZUMS.REC.1401.215

## Health conditions studied

### 1

#### Description of health condition studied

Patients with covid-19

#### ICD-10 code

U07.1

#### ICD-10 code description

Covid-19, Virus identified

## Primary outcomes

### 1

#### Description

Mortality rate

#### Timepoint

Seven days after treatment

#### Method of measurement

Based on the patient's file

### 2

#### Description

Lung involvement rate

#### Timepoint

Seven days after treatment

#### Method of measurement

CT scan findings

### 3

#### Description

Blood oxygen saturation percentage

#### Timepoint

Seven days after treatment

#### Method of measurement

Non-invasive monitoring device

## Secondary outcomes

empty

## Intervention groups

1

### Description

Intervention group: After albumin reaches a level of less than 3 grams per deciliter, 20% albumin in 50 ml vials (company: CSL BEHRING, country of manufacture: Germany) will be administered, three vials daily, every eight hours for seven days.

### Category

Treatment - Drugs

2

### Description

Control group: If the albumin drops to less than 2 grams per deciliter, the same treatment as the intervention group will be performed.

### Category

Treatment - Drugs

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Madani Hospital

#### Full name of responsible person

Reza Alizadeh Kashani MD

#### Street address

Jahanshahr Street

#### City

Karaj

#### Province

Alborz

#### Postal code

3143744693

#### Phone

+98 26 3442 7001

#### Email

Dralizadeh.reza@yahoo.com

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Karaj University of Medical Sciences

#### Full name of responsible person

Hatam Godini P.H.D

#### Street address

Saffarian alley, 45 meters from Golshahr, Karaj

#### City

Karaj

#### Province

Alborz

#### Postal code

3198764653

#### Phone

+98 26 3464 3705

#### Email

h.godini@abzums.ac.ir

### Grant name

### Grant code / Reference number

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

Yes

### Title of funding source

Karaj 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

Karaj University of Medical Sciences

#### Full name of responsible person

Afsaneh Zandi MD

#### Position

Anesthesiology resident

#### Latest degree

Specialist

#### Other areas of specialty/work

Anesthesiology

#### Street address

Jahanshahr Street

#### City

Karaj

#### Province

Alborz

#### Postal code

3143744693

#### Phone

0098 26 344420

#### Email

afsanehzandi24@gmail.com

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Karaj University of Medical Sciences

#### Full name of responsible person

Afsaneh Zandi MD

#### Position

Anesthesiology resident

**Latest degree**

Specialist

**Other areas of specialty/work**

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**Email**

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**Sharing plan****Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

**Study Protocol**

Yes - There is a plan to make this available

**Statistical Analysis Plan**

Yes - There is 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**

Yes - There is 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

**Title and more details about the data/document**

The whole data can be shared after unidentifiable people.

**When the data will become available and for how long**

Start the access period 6 months after printing the results

**To whom data/document is available**

Only available to scholars working in academic and academic institutions.

**Under which criteria data/document could be used**

Employed in research centers

**From where data/document is obtainable**

Person responsible for scientific inquiries

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

Send email to person responsible for scientific inquiries (afsanehzandi24@gmail.com).

**Comments****Person responsible for updating data****Contact****Name of organization / entity**

Karaj University of Medical Sciences

**Full name of responsible person**

Afsaneh Zandi MD

**Position**

Anesthesiology resident

**Latest degree**

Specialist

**Other areas of specialty/work**

Anesthesiology

**Street address**

Jahanshahr Street

**City**

Karaj

**Province**

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