

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

20 Oct 2020

### Evaluation of the efficiency of hydroxychloroquine drug regimen in comparison with hydroxychloroquine + azithromycin in hospitalized patients with covid-19 in the intensive care unit

#### Protocol summary

##### Study aim

Determination of the efficiency of hydroxychloroquine drug regimen in comparison with hydroxychloroquine + azithromycin in hospitalized patients with covid-19 in the intensive care unit

##### Design

Clinical trial with control group, double-blind, randomized, phase 3 on 40 patients. Table of random numbers are used for randomization.

##### Settings and conduct

The study is performed in the ICU of Shahid Modarres Hospital. Participants, clinical care providers and evaluators of final outcomes are blinded

##### Participants/Inclusion and exclusion criteria

Inpatients with COVID-19 in ICU of Shahid Modarres Hospital - Inclusion criteria: Diagnosis of COVID-19 based on either ground glass appearance in chest CT scan or positive PCR test for COVID-19; Requiring hospitalization on the basis of level of consciousness, blood pressure, kidney and liver failure; age between 16 and 100 years; Signed informed consent form; -Exclusion criteria: Chronic liver or renal failure; HIV; Pregnancy & Breast feeding; QT interval > 500 ms.

##### Intervention groups

Dosage of the drug in the intervention group: 400 mg of hydroxychloroquine BD on the first day, and 200 mg BD daily on the second to seventh day and concurrent, Azithromycin at a dose of 500 mg on the first day and then 250 mg daily until the seventh day. Dosage of the drug in the control group: hydroxychloroquine drug 400 mg BD on the first day and 200 mg hydroxychloroquine BD daily on the second to seventh day. Increase the duration of treatment to 10 days according to the doctor's order. The control group will receive placebo instead of Azithromycin.

##### Main outcome variables

Duration of hospital stay in the intensive care unit, death

in hospital, response to treatment based on radiological (CT scan) and laboratory criteria, fever, shortness of breath, Oxygen saturation without supplemental oxygen for 5 minutes, drug side effects

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20200428047228N2**

Registration date: **2020-06-10, 1399/03/21**

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

Last update: **2020-06-10, 1399/03/21**

Update count: **0**

##### Registration date

2020-06-10, 1399/03/21

##### Registrant information

##### Name

Sanaz Zargar Balaye Jame

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 4382 2959

##### Email address

sanazzargar@ajaums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2020-05-19, 1399/02/30

##### Expected recruitment end date

2020-06-19, 1399/03/30

##### Actual recruitment start date

empty  
**Actual recruitment end date**  
empty  
**Trial completion date**  
empty

**Scientific title**  
Evaluation of the efficiency of hydroxychloroquine drug regimen in comparison with hydroxychloroquine + azithromycin in hospitalized patients with covid-19 in the intensive care unit

**Public title**  
Hydroxychloroquine in comparison with hydroxychloroquine + azithromycin in patients with covid-19

**Purpose**  
Treatment

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
Diagnosis of COVID-19 based on either ground glass appearance in chest CT scan or positive RT-PCR test for COVID-19 Requiring hospitalization on the basis of level of consciousness, blood pressure, kidney and liver failure Patient's age between 16 and 100 years Signed informed consent form

**Exclusion criteria:**  
Chronic liver and kidney failure HIV patients pregnancy and breast feeding QT interval more than 500 milliseconds

**Age**  
From **16 years** old to **100 years** old

**Gender**  
Both

**Phase**  
3

**Groups that have been masked**

- Participant
- Care provider
- Outcome assessor

**Sample size**  
Target sample size: **40**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**  
Simple randomization, Random Number Table The numbers will be assigned to the participants who have the inclusion criteria to enter the study, respectively, and according to the table of random numbers, the participants will be divided into two groups of intervention and control.

**Blinding (investigator's opinion)**  
Double blinded

**Blinding description**  
Participants, health care personnel and evaluators of the final outcome are unaware of the drug and placebo given to the intervention and control group .

**Placebo**  
Used

**Assignment**  
Parallel

**Other design features**

**Secondary Ids**

empty

**Ethics committees**

**1**

**Ethics committee**

**Name of ethics committee**

Ethics committee of Shahid Beheshti University of Medical Sciences

**Street address**

shahid Modarres Hospital, Saadat Abad, Tehran, Iran

**City**

Tehran

**Province**

Tehran

**Postal code**

1998734383

**Approval date**

2020-05-03, 1399/02/14

**Ethics committee reference number**

IR.SBMU.RETECH.REC.1399.069

**Health conditions studied**

**1**

**Description of health condition studied**

COVID-19

**ICD-10 code**

COVID-19

**ICD-10 code description**

U07.1 - COVID-19

**Primary outcomes**

**1**

**Description**

length of stay in the intensive care unit

**Timepoint**

Once (when discharged from intensive care unit)

**Method of measurement**

Hospital records

**2**

**Description**

In-hospital mortality

**Timepoint**

once

**Method of measurement**

Medical records

**Secondary outcomes**

## 1

### **Description**

length of stay in hospital

### **Timepoint**

Once at discharge

### **Method of measurement**

Patient medical records

## 2

### **Description**

Radiological Treatment Response (CT scan) , more than 50% reduction in the affected area

### **Timepoint**

CT scan will be done twice (once at the time of admission and the second time 10 days after discharge).

Assessment will be done comparing the second CT with the first one

### **Method of measurement**

Patient CT scan

## 3

### **Description**

Laboratory Treatment Response; return of blood cell count and CRP values to normal

### **Timepoint**

Daily

### **Method of measurement**

Laboratory kits

## 4

### **Description**

Fever

### **Timepoint**

Daily

### **Method of measurement**

Patient medical records

## 5

### **Description**

Dyspnea

### **Timepoint**

Daily

### **Method of measurement**

Patient medical records

## 6

### **Description**

Oxygen saturation without supplemental oxygen. Measurement will be done after discontinuation of oxygen therapy for 5 minutes.

### **Timepoint**

4 times a day while in the wards

### **Method of measurement**

Observation

## 7

### **Description**

Adverse drug reactions

### **Timepoint**

Daily

### **Method of measurement**

Adverse Drug Reaction forms

## **Intervention groups**

### 1

#### **Description**

Intervention group: hydroxychloroquine, 400 mg BD on the first day and 200 mg hydroxychloroquine BD daily on the second to seventh day and concurrent, Azithromycin at a dose of 500 mg on the first day and then 250 mg daily until the seventh day . The two groups will receive standard treatment

#### **Category**

Treatment - Drugs

### 2

#### **Description**

Control group: hydroxychloroquine, 400 mg BD on the first day and 200 mg hydroxychloroquine BD daily on the second to seventh day. Increasing the duration of treatment to 10 days, according to the doctor's order. The control group will receive placebo instead of Azithromycin

#### **Category**

Treatment - Drugs

## **Recruitment centers**

### 1

#### **Recruitment center**

##### **Name of recruitment center**

Shahid Modarres Hospital

##### **Full name of responsible person**

Dr.Mohammad Fathi

##### **Street address**

Shahid Modarres Hospital, Saadat Abad, Tehran, Iran

##### **City**

Tehran

##### **Province**

Tehran

##### **Postal code**

1998734383

##### **Phone**

+98 21 2351 5366

##### **Email**

m.fathi@sbm.ac.ir

## **Sponsors / Funding sources**

### 1

#### **Sponsor**

##### **Name of organization / entity**

Quality Improvement of Intensive Care Research Center- Shahid Beheshti University

**Full name of responsible person**

Dr.Mohammad Fathi

**Street address**

Shahid Modarres Hospital, Saadat Abad, Tehran, Iran

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**Province**

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1998734383

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**Email**

m.fathi@sbmu.ac.ir

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

Yes

**Title of funding source**

Quality Improvement of Intensive Care Research Center-  
Shahid Beheshti University

**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**

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

Dr. Mohammad Fathi

**Position**

Associate Professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Anesthesiology

**Street address**

Shahid Modarres Hospital, Saadat abad, Tehran, Iran

**City**

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1998734383

**Phone**

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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

Dr. Mohammad Fathi

**Position**

Associate Professor

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

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

Dr. Mohammad Fathi

**Position**

Associate Professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Anesthesiology

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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**

Yes - There is a plan to make this available

**Clinical Study Report**

Yes - There is a plan to make this available

**Analytic Code**

Yes - There is a plan to make this available

**Data Dictionary**

Yes - There is a plan to make this available

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

Data can be shared after deleting participants' names.

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

The access period will be started six months after the publication of the article.

**To whom data/document is available**

The data will be available only for academic researchers.

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

Only meta-analysis in collaboration with the current study research team will be permitted.

**From where data/document is obtainable**

Researchers can request data by emailing Dr.Mohammad Fathi(m.fathi@sbmu.ac.ir)

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

Requested data will be sent by email after consideration and approval by the relevant authorities from Shahid beheshti university.

**Comments**