

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

19 Jun 2026

### The effect of Famotidine on the improvement of patients with COVID-19

#### Protocol summary

##### Study aim

This study aims to investigate the effect of Famotidine on the recovery process of COVID-19 patients.

##### Design

Concealed, randomized, single blinded, phase 3 controlled clinical trial with two arm parallel group design of 20 patients, using the placebo in the control group.

##### Settings and conduct

This study will be performed in Shahid Mohammadi Hospital in Bandar Abbas city. Patients enter the study after obtaining written consent. Patients are randomly assigned to one of the intervention or control groups with the placebo. Also, patients will not know which group they belong to. (single blinded)

##### Participants/Inclusion and exclusion criteria

All COVID-19 patients admitted to Shahid Mohammadi Hospital in Bandar Abbas whose PCR test results are positive for SARS-Cov-2 and sign the written consent of the study are included in the study and immunocompromised patients, end-stage renal disease, moderate renal failure (clearance Creatinine 30 to 50 ml/min) or stage 4 severe chronic kidney disease or need for dialysis (creatinine clearance lesser than 30 ml/min), history of liver disease, hepatitis C infection or alcoholism, Glucose 6 phosphate dehydrogenase deficiency(G6PD), the ratio of Alanine transaminase to Aspartate transaminase 5 times above the normal limit, history or evidence of long QT segment on Electrocardiogram, psoriasis or porphyria, pregnancy, use of oral contraceptives, Dasatinib, Neratinib, Ozanimod, Pazopanib, Rilpivirine, Siponimod and/or Tizanidine and allergies to any study drug are excluded.

##### Intervention groups

Patients are divided into two groups. In group A, the standard treatment for COVID-19 patients with Famotidine is prescribed. In group B, patients receive standard COVID-19 treatment with the placebo.

##### Main outcome variables

Patient's clinical symptoms and laboratory examinations.

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20200509047364N2**

Registration date: **2020-08-17, 1399/05/27**

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

Last update: **2020-08-17, 1399/05/27**

Update count: **0**

##### Registration date

2020-08-17, 1399/05/27

##### Registrant information

##### Name

Dariush Hooshyar

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

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##### Email address

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##### 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

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of Famotidine on the improvement of patients

with COVID-19

## Public title

Famotidine and COVID-19

## Purpose

Treatment

## Inclusion/Exclusion criteria

### Inclusion criteria:

All COVID-19 patients whose disease has been confirmed by the PCR test for SARS-Cov-2. Signing the written consent of the study participant.

### Exclusion criteria:

All Immunocompromised patients End stage renal disease Moderate renal insufficiency (creatinine clearance 30-50 mL/min) stage 4 sever chronic kidney disease requiring dialysis (i.e creatinine clearance <30 mL/min) History of hepatic disease History of hepatitis C infection History of alcoholism G-6-PD (glucose-6-phosphate dehydrogenase deficiency) ALT/AST >5 times the upper limit of normal. History of or evidence of QT prolongation on ECG examination History of psoriasis History of porphyria Pregnancy Use of oral contraceptive pills (OCP) Concomitant use of Dasatinib Concomitant use of Neratinib Concomitant use of Ozanimod Concomitant use of Pazopanib Concomitant use of Rilpivirine Concomitant use of Siponimod Concomitant use of Tizanidine Allergy to any study medication

## Age

No age limit

## Gender

Both

## Phase

3

## Groups that have been masked

- Participant

## Sample size

Target sample size: 20

## Randomization (investigator's opinion)

Randomized

## Randomization description

Before assigning groups to individuals eligible to participate in the study, informed consent is completed for grouping individuals. the person who has no role in admitting patients and assigning patients to random codes preparing random sequences using online tools (<https://www.sealedenvelope.com/>) and by permuted block randomization method. Individualized random allocation is done in blocks with sizes 2 and 4, and without stratification. eligibility criteria are monitored by the person responsible for admitting patients. Codes in a random sequence are assigned to patients by the treatment team without knowing that each code is in the intervention or placebo group. Patient codes are then matched to randomly generated sequence information for interventions. (randomization concealment is done by the treatment team without informing the person responsible for admitting patients and the person who prepared the random sequence.)

## Blinding (investigator's opinion)

Single blinded

## Blinding description

In this study, all participants are aware of participating in this study and enter the study with their consent. All participants are unaware of which group of this study they are in and after grouping patients in the groups, Patients receive Famotidine in the treatment group and receive a placebo in the control group. The lead researcher, health care personnel, data collection officials, and those who evaluate the outcome are aware of the grouping of patients. Those who prepare the draft of the article are unaware of the groupings if they do not cooperate in the above cases.

## Placebo

Used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics committee of Hormozgan University of Medical Sciences

##### Street address

Deputy of Research and Technology, Hormozgan University of Medical Sciences, Shahid Chamran Boulevard, Bandar Abbas, Hormozgan, Iran

##### City

Bandar abbas

##### Province

Hormozgan

##### Postal code

7916613885

#### Approval date

2020-08-02, 1399/05/12

#### Ethics committee reference number

IR.HUMS.REC.1399.255

## Health conditions studied

### 1

#### Description of health condition studied

Laboratory confirmed COVID-19

#### ICD-10 code

U07.1

#### ICD-10 code description

COVID-19, virus identified

## Primary outcomes

### 1

#### Description

Respiratory rate

#### Timepoint

At the beginning of the study (before the intervention) and day 14 after the intervention or the day of patient's discharge.

**Method of measurement**

Pulse oximeter

**2**

**Description**

Oxygen saturation state

**Timepoint**

At the beginning of the study (before the intervention) and day 14 after the intervention or the day of patient's discharge.

**Method of measurement**

Pulse oximeter

**3**

**Description**

Lung infiltration status

**Timepoint**

At the beginning of the study (before the intervention) and day 14 after the intervention or the day of patient's discharge.

**Method of measurement**

Chest X-ray

**4**

**Description**

Lactate Dehydrogenase(LDH) level's

**Timepoint**

At the beginning of the study (before the intervention) and day 14 after the intervention or the day of patient's discharge.

**Method of measurement**

Pathobiology laboratory

**5**

**Description**

C-reactive protein(CRP) level's

**Timepoint**

At the beginning of the study (before the intervention) and day 14 after the intervention or the day of patient's discharge.

**Method of measurement**

Pathobiology laboratory

**6**

**Description**

Lymphocyte count

**Timepoint**

At the beginning of the study (before the intervention) and day 14 after the intervention or the day of patient's discharge.

**Method of measurement**

Pathobiology laboratory

**7**

**Description**

Platelet count

**Timepoint**

At the beginning of the study (before the intervention) and day 14 after the intervention or the day of patient's discharge.

**Method of measurement**

Pathobiology laboratory

**Secondary outcomes**

**1**

**Description**

Patient temperature status

**Timepoint**

At the beginning of the study (before the intervention), days 1 to 14 of the intervention or the time of the patient's discharge.

**Method of measurement**

Digital thermometer

**2**

**Description**

Length of hospitalization

**Timepoint**

At the beginning of the study (before the intervention), days 1 to 14 of the intervention or the time of the patient's discharge.

**Method of measurement**

Record patient information

**3**

**Description**

Length of Intensive Care Unit admission

**Timepoint**

At the beginning of the study (before the intervention), days 1 to 14 of the intervention or the time of the patient's discharge.

**Method of measurement**

Record patient information

**Intervention groups**

**1**

**Description**

Intervention group: Group A receives standard pharmacotherapy according to the treatment protocols of the National Committee of COVID-19 and oral famotidine 160 mg (Manufactured by Chemidarou Pharmaceutical Company) four times a day until the day of discharge, for a maximum of fourteen days. Vital signs of patients are also checked at regular intervals and frequently. Standard pharmacotherapy according to the treatment protocols of the National Committee of COVID-19 includes Hydroxychloroquine / Chloroquine Phosphate: Hydroxychloroquine sulfate tablets 200 mg or chloroquine phosphate tablets 250 mg (equivalent to

150 mg base dose) 2 tablets every 12 hours on the first day and then one tablet every 12 hours for at least 7 days and up to 14 days. One of the following medications at the discretion and diagnosis of the treating physician: kaletra tablets (Lopinavir / Ritonavir) 50/200 mg every 12 hours 2 pieces after meals for at least 7 days and a maximum of 14 days. Tablets (Atazanavir / Ritonavir) 300/100 One tablet daily with food or Atazanavir 400 mg daily for at least 7 days and up to 14 days.

**Category**

Treatment - Drugs

**2****Description**

Control group: Group B receives standard drug therapy according to the treatment protocols of the National Committee COVID-19 and placebo in the form of oral tablets four times a day, daily until patients are discharged, for a maximum of fourteen days. Standard pharmacotherapy according to the treatment protocols of the National Committee of COVID-19 includes Hydroxychloroquine / Chloroquine Phosphate: Hydroxychloroquine sulfate tablets 200 mg or chloroquine phosphate tablets 250 mg (equivalent to 150 mg base dose) 2 tablets every 12 hours on the first day and then one tablet every 12 hours for at least 7 days and up to 14 days. One of the following medications at the discretion and diagnosis of the treating physician: kaletra tablets (Lopinavir / Ritonavir) 50/200 mg every 12 hours 2 pieces after meals for at least 7 days and a maximum of 14 days. Tablets (Atazanavir / Ritonavir) 300/100 One tablet daily with food or Atazanavir 400 mg daily for at least 7 days and up to 14 days.

**Category**

Placebo

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

Shahid Mohammadi Hospital

**Full name of responsible person**

Dr. Mehdi Hassaniazad

**Street address**

Boulevard of the Islamic Republic of Iran, Bandar Abbas

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

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**Full name of responsible person**

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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**

Bandare-abbas 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**

Bandare-abbas University of Medical Sciences

**Full name of responsible person**

Dariush Hooshyar

**Position**

Student of Medicine

**Latest degree**

Medical doctor

**Other areas of specialty/work**

General Practitioner

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## Person responsible for scientific inquiries

**Contact**

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Assistant Professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Internal Medicine

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## Sharing plan

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

Undecided - It is not yet known if there will be 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**

Undecided - It is not yet known if there will be 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**

Undecided - It is not yet known if there will be 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