

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Sep 2026

Study of the Efficacy of Teicoplanin on mortality rate of patients with COVID-19 Infection: A randomized clinical trial

Protocol summary

Study aim

Evaluation of the Effect of Ticoplanin in Patients With Coronavirus Disease

Design

A clinical trial with controlled group, not blinded, randomized

Settings and conduct

This study will be performed in Rasoul Akram Hospital Tehran. 40 patients will be divided into two groups (20 in each group) by simple randomization. Patients in the control group will be prescribed a standard regimen for COVID-19. The intervention group will be prescribed teicoplanin 400 mg IV one time daily for seven days and standard regimen for COVID-19. The routine lab data blood cell count, ESR, CRP, CT scan of lungs, hospitalization period, and mortality rate, clinical improvement and radiology finding will be assessed in both groups.

Participants/Inclusion and exclusion criteria

Inclusion Criteria: Laboratory confirmed COVID-19 with RT-PCR or CT scan; Exclusion criteria: Chronic kidney Disease. Acute kidney injury, Pregnancy or breastfeeding

Intervention groups

Control group: will receive standard regimen for COVID-19. Teicoplanin group: will receive standard regimen for COVID-19 plus teicoplanin 400 mg/daily for 7 days.

Main outcome variables

Clinical symptoms. The change of pneumonia severity on CT scanning. Laboratory and radiologic finding changes

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20161204031229N3**

Registration date: **2020-04-08, 1399/01/20**

Registration timing: **registered_while_recruiting**

Last update: **2020-04-08, 1399/01/20**

Update count: **0**

Registration date

2020-04-08, 1399/01/20

Registrant information

Name

Azadeh Eshraghi

Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-03-30, 1399/01/11

Expected recruitment end date

2020-06-21, 1399/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Study of the Efficacy of Teicoplanin on mortality rate of patients with COVID-19 Infection: A randomized clinical trial

Public title

Evaluation the Effect of Ticoplanin in Patients With Coronavirus Disease

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria:

Laboratory confirmed COVID-19 with RT-PCR Laboratory confirmed COVID-19 with lung CT scan

Exclusion criteria:

Chronic kidney Disease Acute kidney injury Pregnancy Breastfeeding

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: 40

Randomization (investigator's opinion)

Randomized

Randomization description

randomization to intervention and control groups. Simple randomization will be generated with a computer

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Iran University of Medical Sciences

Street address

Hazrate Rasool Akram Hospital, Niayesh St, Satarkhan Av

City

Tehran

Province

Tehran

Postal code

1449614535

Approval date

2020-03-30, 1399/01/11

Ethics committee reference number

IR.IUMS.REC.1399.058

Health conditions studied

1

Description of health condition studied

COVID-19

ICD-10 code

U07.1

ICD-10 code description

Coronavirus infection, unspecified

Primary outcomes

1

Description

Measurement of inflammatory markers (CRP)

Timepoint

at baseline and discharge time

Method of measurement

ELISA

2

Description

WBC count

Timepoint

at baseline and discharge time

Method of measurement

Blood count

3

Description

Evaluation of lung CT scan

Timepoint

at baseline and discharge time

Method of measurement

Radiologic finding

4

Description

Evaluation of inflammatory marker ESR

Timepoint

at baseline and discharge time

Method of measurement

Blood count

Secondary outcomes

1

Description

Body temperature

Timepoint

at baseline and discharge time

Method of measurement

Thermometer

2

Description

Fever

Timepoint

at baseline and discharge time

Method of measurement

Thermometer

3

Description

Respiratory rate >24/min

Timepoint

at baseline and discharge time

Method of measurement

Counting of respiratory rate in minutes

4

Description

Systolic blood pressure <90 mm Hg

Timepoint

at baseline and discharge time

Method of measurement

Manometer

5

Description

Oxygen saturation

Timepoint

at baseline and discharge time

Method of measurement

oximeter Pulse

6

Description

Pulse rate

Timepoint

at baseline and discharge time

Method of measurement

Counting of pulse rate in minutes

7

Description

Level of consciousness or new confusion

Timepoint

at baseline and discharge time

Method of measurement

With glasgow coma scale

Intervention groups

1

Description

Intervention group: Tab Hydroxychloroquine 200 mg two tablet P.O. BID for first day then 200 mg BID seven days plus Tab Lopinavir-Ritonavir 200/50 mg P.O. two tablets BID for seven days or Tab atazabavir-ritonavir 100/300 mg P.O one tablet daily for seven days plus Teicoplanin IV 400 mg daily for 1 weeks.

Category

Treatment - Drugs

2

Description

Control group: Tab Hydroxychloroquine 200 mg two tablet P.O. BID for first day then 200 mg BID seven days plus Tab Lopinavir-Ritonavir 200/50 mg P.O. two tablets BID for seven days or Tab atazabavir-ritonavir 100/300 mg P.O one tablet daily for seven days

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Hazrate Rasool Akram Hospital

Full name of responsible person

Azadeh Eshraghi, Saeed Kalantari

Street address

Hazrate Rasool Akram Hospital, Niayesh St, Satarkhan Av, Tehran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Dr.Motevalian

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1449614535

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research-m@iums.ac.ir

Grant name

Grant code / Reference number

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

No

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
Azadeh Eshraghi
Position
Assistant Professor
Latest degree
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Medical Pharmacy
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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

No - There is not 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

No - There is not a plan to make this available

Title and more details about the data/document

Main outcome

When the data will become available and for how long

Start of access period 6 months after printing results

To whom data/document is available

Researchers working in academic institutions

Under which criteria data/document could be used

Total of data

From where data/document is obtainable

Email address of aepharm@gmail.com

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

By email

Comments