Clinical Trial Protocol
Iranian Registry of Clinical Trials

13 Nov 2026

Assessment of boron-containing compounds and oleoylethanolamide supplementation on the recovery trend in Patients with COVID-19: A double-blind randomized placebo-controlled clinical trial

Protocol summary

Study aim

Assessment of boron-containing compounds and Oleoylethanolamid Supplementation on recovery trend in Patients with Known COVID-19

Design

Randomized clinical trial with parallel group trial, double-blinded ,first phase carried out on 40 Covid-19 patients. Randomization was carried out with rand function at an excel software.

Settings and conduct

Patients were randomly divided into 4 groups. The first group receive two capsule containing 5 mg boron compounds per day ,The second group receive two capsule containing 200 mg Oleoylethanolamide per day ,The third group receive two capsule containing 5 mg boron compounds with 200 mg Oleoylethanolamide per day and the fourth group receive two placebo tablets. the participants and researchers were blinded for intervention types during the study period.The groups will be compared in terms of patient recovery rate and hospital admission rate, vital signs and biochemical parameters such as CBC, ESR, CRP before and after the intervention.

Participants/Inclusion and exclusion criteria

Patients with Known COVID-19

Intervention groups

1. Receiving boron containing compound supplement:daily 2 capsules including 5 mg boron containing compound for two weeks 2.Receiving oleoylethanolamide supplement:daily 2 capsules including 200 mg oleoylethanolamide for two weeks 3. Receiving oleoylethanolamide and boron containing compound supplement:daily 2 capsules including 200 mg oleoylethanolamide and 5 mg boron for two weeks 4. Receiving placebo: daily 2 capsules including starch

Main outcome variables

recovery rate

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20090609002017N35**
Registration date: **2020-05-17, 1399/02/28**
Registration timing: **prospective**

Last update: **2020-05-17, 1399/02/28**
Update count: **0**

Registration date

2020-05-17, 1399/02/28

Registrant information

Name

Alireza Ostadrahimi

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1335 7580

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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
Assessment of boron-containing compounds and oleoylethanolamide supplementation on the recovery trend in Patients with COVID-19: A double-blind randomized placebo-controlled clinical trial

Public title
Assessment of boron-containing compounds and Oleoylethanolamid supplementation in the treatment of COVID-19

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Patients with Known COVID-19
Exclusion criteria:

Age
No age limit

Gender
Both

Phase
2

Groups that have been masked

- Participant
- Investigator

Sample size
Target sample size: **40**

Randomization (investigator's opinion)
Randomized

Randomization description
Individuals with inclusion criteria divided into intervention and control groups using Random allocation software (RAS).

Blinding (investigator's opinion)
Double blinded

Blinding description
The intervention and control groups individuals and main researcher do not know the type of supplements.

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Tabriz University of Medical Sciences
Street address
Nutrition Research Center, Faculty of Health and Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
City
Tabriz
Province
East Azarbaijan
Postal code
5166614711

Approval date
2020-05-06, 1399/02/17

Ethics committee reference number
IR.TBZMED.REC.1399.099

Health conditions studied

1

Description of health condition studied
COVID - 19

ICD-10 code
U07.01

ICD-10 code description
Coronavirus infection, unspecified

Primary outcomes

1

Description
Recovery trend

Timepoint
At baseline and at the end of intervention

Method of measurement
Examination

2

Description
Hospital admission time

Timepoint
At baseline and at the end of intervention

Method of measurement
Observation

3

Description
CBC,ESR

Timepoint
At baseline and at the end of intervention

Method of measurement
Blood sampling and testing with H1 device

4

Description
CRP

Timepoint
At baseline and at the end of intervention

Method of measurement
Blood sampling and measurement with Auto analyzer device

Secondary outcomes

empty

Intervention groups

1

Description
Group 1 consume 2 capsules containing 5 mg boron containing compound per day for two weeks.
Category
Treatment - Drugs

2

Description
Group 2 consume 2 capsules containing 200 mg oleoylethanolamide per day for two weeks
Category
Treatment - Drugs

3

Description
Group 3 consume 2 capsules containing 5 mg boron containing compound and 200 mg oleoylethanolamide per day for two weeks
Category
Treatment - Drugs

4

Description
Group 4 as a control group consume 2 placebo capsules containing starch powder per day for two weeks
Category
Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Imam Reza Hospital
Full name of responsible person
Alireza Ostadrahimi
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Imam Reza Hospital, University Street, Tabriz, Iran
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Sponsors / Funding sources

1

Sponsor
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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
Tabriz 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
Tabriz University of Medical Sciences
Full name of responsible person
Alireza Ostadrahimi
Position
Professor
Latest degree
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Other areas of specialty/work
Nutrition
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Person responsible for updating data

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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
All data are resulting from Research project and will be used just for manuscript printing in academic journals.

Study Protocol
Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan
Not applicable

Informed Consent Form
No - There is not 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
Not applicable

Data Dictionary
Not applicable