Evaluation of the effect of Nutrition Bio-Safety (NBS) powder on immune system function and clinical manifestations in patients with COVID-19

Protocol summary

Study aim
Determine the effect of NBS powder on immune system function and clinical manifestations in patients with COVID-19

Design
The randomized clinical trial, parallel groups, 23 patients will be enrolled in each arm of the study.

Settings and conduct
This study will be performed in Sina hospital, Hamadan, Iran. In this study 46 patients selected based on inclusion and exclusion criteria will be divided into two groups (23 in each group) by simple randomization. Patients in control group will be prescribed standard regimen for COVID-19. Patients in intervention group in addition to the standard antiviral treatment of the two-drug regimen, NBS powder will be taken at a dose of 2 g / day for 4 weeks.

Participants/Inclusion and exclusion criteria
The confirmed COVID-19 patients through PCR over the age of 20 year and is not allergic to the powder used.

Intervention groups
In the intervention group, in addition to the standard antiviral treatment of the two-drug regimen, NBS powder will be taken at a dose of 2 g / day for 4 weeks. The control group will only receive standard antiviral treatment with a two-drug regimen.

Main outcome variables
Improve clinical signs and strengthen the immune system

General information

Reason for update
Supportive

IRCT registration information
IRCT registration number: IRCT20200426047206N1
Registration date: 2020-04-28, 1399/02/09
Registration timing: prospective
Inclusion criteria:
Covid 19 positive patients with with age over 20 years
Exclusion criteria:
Disagreement of the patient or relatives to participate in
the project Drug sensitivity to NBS Patient death during
common and selective treatments

Age
From 20 years old

Gender
Both

Phase
3

Groups that have been masked
- Participant
- Investigator

Sample size
Target sample size: 46

Randomization (investigator's opinion)
Randomized

Randomization description
In this study, simple randomization method will be used.
A randomized list will be generated by online
randomization site. Patients will be allocated to
intervention or control group according to the generated
list.

Blinding (investigator's opinion)
Double blinded

Blinding description
In this study patients and researchers don't know which
group of patients will use the NBS. Physician and
clinicians team know about the group who use the
powder.

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1
Ethics committee
Name of ethics committee
Ethics committee of Hamadan University of Medical
Sciences
Street address
Fahmideh Street
City
Hamadan
Province
Hamadan
Postal code
6517838778
Approval date
2020-04-11, 1399/01/23

Health conditions studied

1
Description of health condition studied
COVID-19 pneumonia
ICD-10 code
U07.2
ICD-10 code description
COVID-19,

Primary outcomes

1
Description
Pulmonary symptoms
Timepoint
4 weeks after intervention
Method of measurement
CT Scan

Secondary outcomes
empty

Intervention groups

1
Description
Intervention group: Patients in intervention group in
addition to the standard antiviral treatment of the two-
drug regimen, NBS powder will be prescribe is below:
Dosage of NBS is 500 mg capsules daily in four capsules
(two grams) given in divided doses of one gram in the
morning and one gram in the evening for 4 weeks.
Category
Treatment - Drugs

2
Description
Control group: standard antiviral treatment of the two-
drug regimen including: Hydroxychloroquine - Caltra
(Lupinavir + Ritonavir)
Category
Treatment - Drugs

Recruitment centers

1
Recruitment center
Name of recruitment center
Sina Hospital
Full name of responsible person
Farid Azizi Jalilian
Street address
Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Saeed Bashirian
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6571838678
Phone
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Email
s_bashirian@yahoo.com
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Hamedan 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 scientific inquiries

Contact
Name of organization / entity
Hamedan University of Medical Sciences
Full name of responsible person
Farid Azizi Jalilian
Position
Associate professor
Latest degree
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Other areas of specialty/work
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Person responsible for updating data

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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