

# Study on the effects of using ivermectin to prevent COVID-19 in an adult population in Brazil

<b>Submission date</b>	<b>Recruitment status</b>	<input type="checkbox"/> Prospectively registered
11/11/2020	No longer recruiting	<input checked="" type="checkbox"/> Protocol
<b>Registration date</b>	<b>Overall study status</b>	<input type="checkbox"/> Statistical analysis plan
17/11/2020	Completed	<input type="checkbox"/> Results
<b>Last Edited</b>	<b>Condition category</b>	<input type="checkbox"/> Individual participant data
24/02/2022	Infections and Infestations	<input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

COVID-19 is a condition caused by the coronavirus (called SARS-CoV-2) that was first identified in late 2019. This virus can infect the respiratory (breathing) system. Some people do not have symptoms but can carry the virus and pass it on to others. People who have developed the condition may develop a fever and/or a continuous cough among other symptoms. This can develop into pneumonia. Pneumonia is a chest infection where the small air pockets of the lungs, called alveoli, fill with liquid and make it more difficult to breathe.

In 2020, the virus has spread to many countries around the world and neither a vaccine against the virus or specific treatment for COVID-19 has yet been developed. As of March 2020, it is advised that people minimize travel and social contact, and regularly wash their hands to reduce the spread of the virus.

Groups who are at a higher risk from infection with the virus, and therefore of developing COVID-19, include people aged over 70 years, people who have long-term health conditions (such as asthma or diabetes), people who have a weakened immune system and people who are pregnant. People in these groups, and people who might come into contact with them, can reduce this risk by following the up-to-date advice to reduce the spread of the virus.

To date, some 12.9% of global deaths occurred in Brazil.

Ivermectin has been shown strong antiviral activity against chikungunya virus in 2016. Ivermectin is approved to treat a range of parasitic worm infections, it is a safe drug widely used in many countries and presents very few and mild side effects. The aim of this study is to test if taking ivermectin can reduce the probability of being infected by SARS-CoV-2 virus that causes COVID-19.

### **Who can participate?**

Adult volunteers aged 18 or more who live in a local community previously chosen, who have neither developed immunity for SARS-CoV-2 or COVID-19 and are clinically asymptomatic for COVID-19.

### **What does the study involve?**

Healthy volunteers will be randomly allocated to one of the two groups.

Those in the first group will receive a single dose of a placebo (dummy drug) and those in the second group receive a single dose of ivermectin. The follow-up period is 90 days after receiving the treatment.

Participants will be asked to provide information regarding to presence of symptoms suggestive of COVID-19 at any point during the 90 days of the trial. All participants will be interviewed before they have taken their treatment dose and after, at days 7, 14, 30 and 90, to answer if they have presented any signs and/or symptoms of COVID-19 and side effects, that will be included in the questionnaire of this trial.

They will be asked to provide fingerpick blood samples for testing immunity status for SARS-CoV-2 at time of enrollment (screening for excluding previous infected participant) and at any time of follow-up to confirm any symptom suggestive of COVID-19.

### **What are the possible benefits and risks of participating?**

The study participants might help be diagnosed early and treated for COVID-19. Participants who do not respond to treatment and develop symptoms of COVID-19 will be referred to local health facilities for confirmatory diagnoses and receive treatment (according to WHO recommendations).

There is a low risk of side effects of ivermectin. These will be monitored throughout.

### **Where is the study run from?**

Centro Odontomédico (Brazil)

### **When is the study starting and how long is it expected to run for?**

April 2020 to August 2022

### **Who is funding the study?**

Governmental funds are provided by the city of Mamanguape (Paraíba, Brazil) running by the health secretary of the city and the private resources by the Institute of Clinical Research Scinet, Recife, Pernambuco, Brazil.

### **Who is the main contact?**

Prof. Taciana Castro

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## **Contact information**

### **Type(s)**

Scientific

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## Additional identifiers

**Clinical Trials Information System (CTIS)**

Nil known

**ClinicalTrials.gov (NCT)**

Nil known

**Protocol serial number**

IvermecPrev-Brazil ScinetN001.2020

## Study information

**Scientific Title**

Investigation of efficacy and safety for Preventing COVID-19 using a single dose of Ivermectin (IvermecPrev-Brazil) in the general asymptomatic susceptible population under SARS-CoV-2 exposition during a pandemic period in Brazil: randomized double-blind placebo-controlled trial

**Acronym**

IvermecPrev-Brazil

**Study objectives**

A single dose of ivermectin plus usual health prophylaxis recommendations significantly reduces the number of new COVID-19 cases in the community compared to prophylaxis recommendations alone.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Approved 06/06/2020, National Commission for Research Ethics (CONEP) (Ministério da Saúde - Esplanada dos Ministérios Edifício Anexo Bl. G Ala B Sl. 13-B, 70.058-900, Brasília; +55 61 3315-295; conep@saude.gov.br), ref: 31523220.0.1001.0008

**Study design**

Two-armed randomized controlled trial

**Primary study design**

Interventional

**Study type(s)**

Prevention

**Health condition(s) or problem(s) studied**

Prevention of COVID-19 (SARS-CoV-2 infection)

**Interventions**

Study participants eligible for treatment will be randomly assigned to receive single, oral doses of placebo or ivermectin using a computer-generated stratified block randomization code. The random allocation sequence with varying random blocks will be provided by an independent pharmaceutical.

To those allocated in the intervention arm, ivermectin will be used as a single dose of 400 µg/kg and to those allocated in the control arm a dummy drug (placebo) of identical appearance from a sealed opaque envelope. Participants, researchers and community health workers are all blinded regarding treatment or placebo arm. The treatment will be administered on one day only and follow up will be conducted for all treatment arms 90 days after treatment.

**Intervention Type**

Drug

**Phase**

Phase III

**Drug/device/biological/vaccine name(s)**

Ivermectin

**Primary outcome(s)**

Covid-19 case diagnosis (conversion from being asymptomatic pre-treatment to symptomatic post-treatment for COVID-19) by using a questionnaire for screening clinical symptoms of COVID-19, at baseline, and during the follow up at 7, 14, 30 and 90 days. All clinically diagnosed COVID-19 cases will be confirmed by serologic IgM and IgG anti-SARS-CoV2 test at 14 days post-initial symptoms.

**Key secondary outcome(s)**

1. Clinical status of COVID-19 using the WHO Clinical Progression Scale measured at 14 and 30 days after COVID-19 diagnosis (if applicable)

2. Incidence of severe COVID-19 cases determined by active cases detection and defined by WHO Clinical Progression Scale at days 14 and 30 after treatment
3. Rate of adverse events using active case detection with questionnaire and adverse events grades (mild, moderate and severe) using Common Terminology Criteria for Adverse Events (CTCAE) v5.0 at days 2 and 7 after treatment
4. Hospitalization rate at 7,14, 30 and 90 days measured using patient records
5. Deaths at the follow-up period (90 days) measured using patient records

**Completion date**

30/08/2022

## Eligibility

**Key inclusion criteria**

1. Adult participants susceptible to be infected by SARS-CoV-19 (not previous infection) tested negative for IgM and IgG immunological test
2. No symptoms of COVID-19
3. Written informed consent signed by participating for the study

**Participant type(s)**

Healthy volunteer

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

All

**Key exclusion criteria**

1. Pregnant or breastfeeding
2. Known allergy to study medications used at intervention
3. Known or reported history of liver disease
4. Use of coumarin (anticoagulant)

**Date of first enrolment**

15/09/2020

**Date of final enrolment**

25/02/2022

## Locations

**Countries of recruitment**

Brazil

**Study participating centre**  
**Centro Odontomédico**  
Rua Aristides Lobo, S/N - Centro  
Mamanguape - Paraíba  
Brazil  
58280-000

**Study participating centre**  
**Unidade de Saúde Santa Edwirgens**  
Rua Maria das Dores, S/N - Gurguri  
Mamanguape - Paraíba  
Brazil  
58280-000

## Sponsor information

**Organisation**  
Federal University of Pernambuco

**ROR**  
<https://ror.org/047908t24>

**Organisation**  
Clinical Research Institute Scinet

## Funder(s)

**Funder type**  
Research organisation

**Funder Name**  
Clinical Research Institute Scinet

**Funder Name**  
Mamanguape's Health Secretariat

# Results and Publications

## Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are available from the corresponding author on reasonable request.

What data in particular will be shared?

Individual participant data that underlie the results reported in this article, after deidentification (text, tables, figures, and appendices).

What other documents will be available?

Study Protocol

When will data be available (start and end dates)?

Beginning 3 months and ending 36 months following article publication.

With whom?

Researchers who provide a methodologically sound proposal.

For what types of analyses?

To achieve aims in the approved proposal. For individual participant data meta-analysis

By what mechanism will data be made available?

Proposals may be submitted up to 36 months following article publication. After 36 months the data will be available in our University's data warehouse but without investigator support other than deposited metadata. Information regarding submitting proposals and accessing data may be found at (Link to be provided).

## IPD sharing plan summary

Available on request

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<a href="#">Protocol file</a>		24/02/2022	24/02/2022	No	No
<a href="#">Protocol file</a>	Protocol supplement	24/02/2022	24/02/2022	No	No