

# Solidarity trial of candidate vaccines against COVID-19

<b>Submission date</b>	<b>Recruitment status</b>	<input type="checkbox"/> Prospectively registered
03/08/2021	No longer recruiting	<input checked="" type="checkbox"/> Protocol
<b>Registration date</b>	<b>Overall study status</b>	<input type="checkbox"/> Statistical analysis plan
08/10/2021	Completed	<input type="checkbox"/> Results
<b>Last Edited</b>	<b>Condition category</b>	<input type="checkbox"/> Individual participant data
12/01/2026	Infections and Infestations	<input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

This large, international, randomized controlled clinical trial is designed to enable an expeditious, agile, and concurrent evaluation of the benefits and risks of multiple candidate preventive vaccines against COVID-19 at international sites with sufficient COVID-19 attack rates. The trial is designed to provide sufficient evidence of safety and vaccine efficacy against COVID-19 to support decision-making about global vaccine deployment, which may include licensure and/or WHO pre-qualification. Final decisions about COVID-19 deployment will be made in each jurisdiction.

**Simplicity of procedures:** Within each country, the investigator invites selected sites and helps them get ethical and regulatory approval and study vaccines, then volunteers' recruitment can begin. To facilitate collaboration, volunteer enrolment and randomisation (via a cloud-based GCP-compliant platform) and all other trial procedures are greatly simplified, and no paperwork is required. Once consent has been obtained, electronic entry of anonymised details of a few key characteristics of each volunteer takes only a few minutes. At the end of a patient's entry, a random vaccine allocation is generated.

### Who can participate?

Adults (age  $\geq$  16 years), capable of giving personal signed informed consent, healthy participants who are determined by the clinical judgment of the investigator to be eligible for inclusion in the study.

### What does the study involve?

**Trial entry, randomization:** Once electronic data collection has been completed the volunteer automatically enters the trial and a random allocation of their trial vaccine is generated (by an algorithm that ensures eventual balance in the characteristics just recorded between each study vaccines and its placebos) and displayed. The volunteers will be randomly allocated either to placebo or to one of the study vaccines.

**Follow-up:** Each participant will be contacted weekly for 52 weeks for information as to whether any potentially relevant symptoms have arisen, with laboratory testing triggered if the report suggests COVID-19.

What are the possible benefits and risks of participating?

**Safety:** Evaluation of COVID-19 vaccine safety is one of the primary objectives of this trial. All sites will monitor and report serious adverse events (SAEs) at any time after vaccination, by baseline SARS-CoV-2 serostatus where available.

Where is the study run from?

World Health Organization (Switzerland)

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

August 2021 to September 2023

Who is funding the study?

World Health Organization (Switzerland)

Who is the main contact?

Dr Ana Maria Henao Restrepo, [henaorestrepoa@who.int](mailto:henaorestrepoa@who.int)

## Contact information

### Type(s)

Scientific

### Contact name

Dr Ana Maria Henao Restrepo

### ORCID ID

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### Contact details

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## Additional identifiers

### Clinical Trials Information System (CTIS)

Nil known

### ClinicalTrials.gov (NCT)

Nil known

### Protocol serial number

Nil known

# Study information

## Scientific Title

An international randomised trial of candidate vaccines against COVID-19

## Acronym

SOLIDARITY Vaccine Trial

## Study objectives

This large, international, randomized controlled clinical trial is designed to enable an expeditious, agile, and concurrent evaluation of the benefits and risks of multiple preventive vaccines against COVID-19 at international sites with sufficient COVID-19 attack rates. The trial is designed to provide sufficient evidence of safety and vaccine efficacy against COVID-19 to support decision-making about global vaccine deployment, which may include licensure and/or WHO pre-qualification. Final decisions about COVID-19 deployment will be made in each jurisdiction.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Approved 01/06/2022, WHO Ad Hoc COVID-19 Research Ethics Review Committee (World Health Organization, 20, Avenue Appia, Geneva 1211, Switzerland; +41 (0)22 791 2174; ersec@who.int, mumforde@who.int), ref: not applicable

## Study design

Interventional randomized controlled trial

## Primary study design

Interventional

## Study type(s)

Prevention

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

COVID-19 (SARS-CoV-2 infection)

## Interventions

Four vaccine candidates selected for evaluation. Candidate vaccines are selected on a rolling basis by the WHO Working Group on vaccine prioritization

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Follow-up: Each participant will be contacted weekly for 52 weeks for information as to whether any potentially relevant symptoms have arisen, with laboratory testing triggered if the report suggests COVID-19.

Adaptive design: A global Data Monitoring Committee will keep the accumulating safety results and major outcome results under regular review. Different candidate vaccines may be available or suitable to enter the trial at different times; for each candidate vaccine, the primary efficacy results are expected within 3-6 months of the vaccine entering the trial. By using a shared placebo/control group and a common Core protocol to evaluate multiple candidate vaccines in the trial, resources allocated to the evaluation of each candidate vaccine are judiciously saved while a high standard of scientific rigor and efficiency is ensured.

Add-on studies: Particular countries, or particular groups of sites, may want to collaborate in making further measurements or observations. These could be thought of as Phase 2b trials that are being conducted concurrently with the Phase 3 trial. However, while well-organised additional research studies of additional secondary and supportive endpoints, for which monitoring is valuable but optional at each study site include infection with SARS-CoV-2, transmission of SARS-CoV-2, and possible immunological markers as correlates of risk could well be valuable, they are not core requirements in every site.

### **Intervention Type**

Biological/Vaccine

### **Phase**

Phase III

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

Candidate Vaccines

### **Primary outcome(s)**

Virologically confirmed COVID-19 disease, through SARS-CoV2 RNA isolation and RRT-PCR amplification in oro-nasopharyngeal specimen, regardless of disease severity, at 14, 180, 365 days after the last dose.

### **Key secondary outcome(s)**

Measured at dose 1, dose 2, 7, 180, and 365 days after dose 2:

1. Serious adverse events (SAEs), adverse events of special interest (AESIs) as requested, collected for all participants throughout the study.
2. Severe COVID-19 (as per WHO classification) and death with recently confirmed COVID-19.
3. COVID-19 and severe COVID-19 diagnosed starting 14 days after the final dose through the final study visit.
4. SARS-CoV-2-specific neutralization antibody, binding antibody, and T-cell immune responses measured using blood test in a subset of participants at selected sites.
5. COVID-19 viral load and other disease progression biomarkers measured using blood test.

### **Completion date**

30/10/2024

## **Eligibility**

### **Key inclusion criteria**

1. Male or female participants between the ages of 16 and above at randomization
2. Living in the area and planning to reside in the area for at least 6 months
3. Capable of giving personal signed informed consent/have parent(s)/legal guardian capable of

giving signed informed consent as described in SOP-03

4. Healthy participants who are determined by the clinical judgment of the investigator to be eligible for inclusion in the study

5. Participants who are willing and able to comply with all scheduled visits, vaccination plans, laboratory tests (if randomised and consent given, lifestyle considerations, and other study procedures

**Participant type(s)**

Healthy volunteer

**Healthy volunteers allowed**

No

**Age group**

Mixed

**Lower age limit**

16 years

**Upper age limit**

100 years

**Sex**

All

**Total final enrolment**

0

**Key exclusion criteria**

1. Previous laboratory-confirmed diagnosis of COVID 19.

2. Previous vaccination with any COVID-19 vaccine.

3. Receipt of medications intended to prevent COVID 19.

4. Participation in other studies involving a study intervention within 28 days prior to study entry and/or during study participation.

5. History of severe adverse reaction associated with a vaccine and/or severe allergic reaction (eg, anaphylaxis) to any component of the study intervention(s).

6. Individuals who receive treatment with immunosuppressive therapy, including cytotoxic agents or systemic corticosteroids, eg, for cancer or an autoimmune disease, or planned receipt throughout the study.

7. Bleeding diathesis or condition associated with prolonged bleeding that would, in the opinion of the investigator, contraindicate intramuscular injection.

8. Women who are pregnant or breastfeeding will be informed that there is no data on the safety of these vaccines among these groups and will be given the opportunity to decide if they are willing to participate in the trial.

**Date of first enrolment**

01/09/2021

**Date of final enrolment**

01/08/2023

# Locations

## Countries of recruitment

Colombia

Kenya

Mali

Philippines

Sierra Leone

Switzerland

## Study participating centre

### Multicountry trial

Geneva

Switzerland

1211

# Sponsor information

## Organisation

World Health Organization

## ROR

<https://ror.org/01f80g185>

# Funder(s)

## Funder type

Research organisation

## Funder Name

World Health Organization

## Alternative Name(s)

, , Всемирная организация здравоохранения, Organisation mondiale de la Santé, Organización Mundial de la Salud, WHO, , ВОЗ, OMS

## Funding Body Type

Government organisation

**Funding Body Subtype**

International organizations

**Location**

Switzerland

## Results and Publications

### Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be stored in a non-publicly available repository. After the trial has ended and its results have been reported, anonymized data sharing will occur as per the Policy Statement on Data Sharing by the World Health Organization ([https://www.who.int/ihr/procedures/SPG\\_data\\_sharing.pdf?ua=1&ua=1](https://www.who.int/ihr/procedures/SPG_data_sharing.pdf?ua=1&ua=1))

### IPD sharing plan summary

Stored in non-publicly available repository

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Protocol file</a>	version 2.0	14/06/2021	16/09/2021	No	No
<a href="#">Protocol file</a>	version 4.1	20/05/2022	12/09/2022	No	No
<a href="#">Study website</a>		11/11/2025	11/11/2025	No	Yes