

South Africa rolls out second coronavirus vaccine trial

August 18 2020



3D print of a spike protein of SARS-CoV-2, the virus that causes COVID-19—in front of a 3D print of a SARS-CoV-2 virus particle. The spike protein (foreground) enables the virus to enter and infect human cells. On the virus model, the virus surface (blue) is covered with spike proteins (red) that enable the virus to enter and infect human cells. Credit: NIH

South Africa will launch clinical trials of a US-developed coronavirus vaccine with 2,900 volunteers this week, the second such study in the African country worst hit by the disease, lead investigator Shabir Madhi said Tuesday.

Known as NVX-CoV2373, the [vaccine](#) was developed by US biotech company Novavax from the genetic sequence of SARS-CoV-2, the virus that causes the COVID-19 disease.

It will be administered to the first volunteer in the randomised, observer-blinded trial on Wednesday.

"It's a two-dose schedule, and they get two either vaccines or placebos... spaced three weeks apart," professor Madhi of the Johannesburg-based University of the Witwatersrand (Wits), told AFP.

With 589,886 cases and 11,982 deaths, South Africa is fifth in global rankings for countries with the most infections.

Since the country also accounts for 20 percent of global HIV infections according to UNAIDS 2020 data, 240 medically stable, HIV-positive adults will also participate in the clinical trial.

"It's critical that we understand how these vaccines work in populations that have HIV, especially in South Africa where they constitute up to about 12 to 15 percent of the adult population," said Madhi.

Wits University said studies of the Novavax vaccine in [non-human primates](#) have shown protection against the coronavirus infection in nasal passages as well as protection against lung disease.

Partly funded by a \$15 million grant from the Bill & Melinda Gates Foundation, the [trials](#) are part of a larger study to be launched

throughout the world to involve approximately 30,000 participants.

In June, South Africa piloted its first trial of a vaccine developed by the Britain-based Oxford Jenner Institute.

Some 2,000 people were injected with the vaccine known as ChAdOx1 nCoV-19 with 50 of the candidates having HIV.

© 2020 AFP

Citation: South Africa rolls out second coronavirus vaccine trial (2020, August 18) retrieved 10 April 2024 from

<https://medicalxpress.com/news/2020-08-south-africa-coronavirus-vaccine-trial.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--