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November 16, 2020

Promising interim results for NIH-Moderna COVID-19 vaccine



The investigational vaccine that KPWHRI's team first tested shows an efficacy rate of 94.5% as Phase 3 research continues.

An independent data and safety monitoring board (DSMB) overseeing the Phase 3 trial of the investigational COVID-19 vaccine known as mRNA-1273 reviewed trial data and shared its interim analysis with the trial oversight group on Nov. 15, 2020. This interim review of the data suggests that the vaccine is safe and effective at preventing symptomatic COVID-19 in adults.

The interim analysis comprised 95 cases of symptomatic COVID-19 among volunteers. The DSMB reported that the vaccine candidate was safe and well-tolerated and noted a vaccine efficacy rate of 94.5%. The findings are statistically significant, meaning they are likely not due to chance. Of the cases, 90 occurred in the placebo group and 5 occurred in the vaccinated group. There were 11 cases of severe COVID-19 out of the 95 total, all of which occurred in the placebo group.

The vaccine research team at Kaiser Permanente Washington Health Research Institute (KPWHRI) in Seattle launched the Phase 1 trial (<https://www.kpWASHINGTONresearch.org/news-and-events/recent-news/news-2020/kaiser-permanente-launches-coronavirus-vaccine-study-seattle>) of the mRNA-1273 vaccine candidate, which was co-developed by the Cambridge, Massachusetts-based biotechnology company Moderna, Inc., and the National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institutes of Health. It combines Moderna's mRNA (messenger

RNA delivery platform with the stabilized SARS-CoV-2 spike immunogen (S-2P) (<https://www.niaid.nih.gov/news-events/atomic-structure-novel-coronavirus-protein>) developed by NIAID scientists. KPWHRI is now one of 100 sites involved in the Phase 3 trial of the NIAID-Moderna investigational vaccine.

“Our research team is thrilled with the results from this positive interim analysis and tremendously grateful to the thousands of study volunteers who have stepped forward to help all of society in our global fight against the virus,” said Senior Investigator Lisa A. Jackson, MD, MPH, who leads the trials at KPWHRI. “As our work continues, I also want to acknowledge my colleagues at the other research sites and in our vaccine research unit at Kaiser Permanente Washington, who have been working tirelessly since January to bring us to this point. With these results, we can feel confident that our continued work on the front lines through the pandemic will ultimately help save lives around the world.”

Steps in development

The NIAID-Moderna vaccine candidate transitioned from early development with NIAID to the Biomedical Advanced Research and Development Authority (BARDA), part of the Department of Health and Human Services Office of the Assistant Secretary for Preparedness and Response, for advanced development and manufacturing support, to meet the federal government’s Operation Warp Speed (<https://www.hhs.gov/coronavirus/explaining-operation-warp-speed/index.html>) (OWS) goals.

The Phase 3 vaccine efficacy trial, known as COVE, was begun under OWS, a multi-agency collaboration led by HHS and the Department of Defense that aims to accelerate the development, manufacturing and distribution of medical countermeasures for COVID-19. The Accelerating COVID-19 Therapeutic Interventions and Vaccines (ACTIV) (<https://www.nih.gov/research-training/medical-research-initiatives/activ>) partnership advised on the trial protocol design and endpoints to ensure a harmonized approach across multiple vaccine efficacy trials. The partnership brings NIH together with other HHS agencies and government partners and representatives from academia, philanthropic organizations, and numerous biopharmaceutical companies to develop a coordinated research strategy for prioritizing and speeding development of the most promising treatments and vaccines.

More than 30,000 participants are now participating in the study, which launched on July 27, 2020 (<https://www.niaid.nih.gov/news-events/phase-3-clinical-trial-investigational-vaccine-covid-19-begins>), after results from earlier stage clinical testing (<https://www.niaid.nih.gov/news-events/experimental-covid-19-vaccine-safe-generates-immune-response>) indicated that the vaccine candidate is well-tolerated and immunogenic. Recognizing the disproportionate impact of the epidemic on underrepresented minority populations, investigators worked with community engagement partners to enroll a diverse pool of participants. Of the trial volunteers, 37% are from racial and ethnic minorities.

The COVE trial is sponsored by Moderna. BARDA and NIAID are providing funding and technical support for the trial. A total of 25 NIH-funded COVID-19 Prevention Network (<https://www.coronaviruspreventionnetwork.org/>) sites enrolled participants in the trial.

The co-principal investigators for the study are Hana M. El Sahly, M.D., principal investigator of the NIAID-funded Infectious Diseases Clinical Research Consortium site at Baylor College of Medicine in Houston; Lindsey R. Baden, M.D., principal investigator of the NIAID-funded Harvard HIV Vaccine Clinical Trials Unit at Brigham and Women’s Hospital in Boston; and Brandon Essink, M.D., principal investigator and medical director of Meridian Clinical Research.

More detailed information about the trial, including more comprehensive data, will be available in a forthcoming report. For more information about the trial, visit clinicaltrials.gov and search identifier NCT04470427 (<https://clinicaltrials.gov/ct2/show/NCT04470427>).

Volunteering for COVID-19 vaccine trials

Kaiser Permanente Washington’s vaccine research group has a registry of Seattle-area people who want to be considered to participate in possible trials of investigational vaccines for COVID-19 at Kaiser Permanente Washington in Seattle: corona.kpwashingtonresearch.org (<http://corona.kpwashingtonresearch.org/>).

The COVID-19 Prevention Trials Network has a volunteer screening registry of people nationwide who are interested in participating in a broader range of vaccines and other preventive treatments at various research facilities in Seattle and around the country: [coronaviruspreventionnetwork.org](http://www.coronaviruspreventionnetwork.org) (<http://www.coronaviruspreventionnetwork.org/>).

About the COVID-19 Prevention Network

The COVID-19 Prevention Network (CoVPN) was formed by the National Institute of Allergy and Infectious Diseases (NIAID) at the U.S. National Institutes of Health to respond to the global pandemic. Through the CoVPN, NIAID is leveraging the infectious disease expertise of its existing research networks and global partners to address the pressing need for vaccines and antibodies against SARS-CoV-2. CoVPN will work to develop and conduct studies to ensure rapid and thorough evaluation of vaccines and antibodies for the prevention of COVID-19. The CoVPN is headquartered at the Fred Hutchinson Cancer Research Center (<http://engage.fredhutch.org/site/R?i=jqXSz5CWYdUzE4VcuSnO5w>). For more information about the CoVPN, visit: [coronaviruspreventionnetwork.org](http://www.coronaviruspreventionnetwork.org) (<https://coronaviruspreventionnetwork.org/>).

About the National Institute of Allergy and Infectious Diseases

NIAID conducts and supports research — at NIH, throughout the United States, and worldwide — to study the causes of infectious and immune-mediated diseases and to develop better means of preventing, diagnosing, and treating these illnesses. News releases, fact sheets, and other NIAID-related materials are available on the NIAID website (<https://www.niaid.nih.gov/>).

About the National Institutes of Health

NIH, the nation's medical research agency, includes 27 institutes and centers and is a component of the Department of Health and Human Services. NIH is the primary federal agency conducting and supporting basic, clinical, and translational medical research, and is investigating the causes, treatments, and cures for both common and rare diseases. For more information about NIH and its programs, visit the NIH website (<http://www.nih.gov/>).

About Kaiser Permanente Washington Health Research Institute

Permanente Washington Health Research Institute (KPWHRI) improves the health and health care of Kaiser Permanente members and the public. The Institute has conducted nonproprietary public-interest research on preventing, diagnosing, and treating major health problems since 1983.

Government and private research grants provide our main funding. Follow KPWHRI research on Twitter

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FEATURED RESEARCHER

Lisa A. Jackson, MD, MPH

Senior Investigator
Kaiser Permanente Washington Health Research Institute

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NEWS



Janssen phase 3 COVID-19 vaccine trial to begin at KPWHRI

[\(/news-and-events/recent-news/news-2020/janssen-phase-3-covid-19-vaccine-trial-begin-kpwhri\)](#)

The institute is participating in NIAID tests of Moderna and Johnson & Johnson vaccines.

NEWS



COVID-19 vaccine well tolerated, generates immune response

[\(/news-and-events/recent-news/news-2020/covid-19-vaccine-well-tolerated-generates-immune-response\)](#)
National Institute of Allergy and Infectious Diseases-sponsored phase 1 trial tested mRNA vaccine.

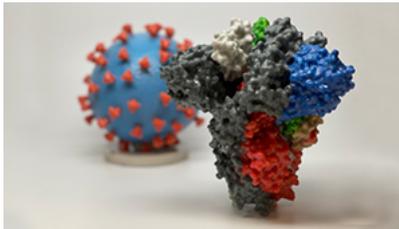
RESEARCH



Kaiser Permanente launches first coronavirus vaccine trial

[\(/news-and-events/recent-news/news-2020/kaiser-permanente-launches-coronavirus-vaccine-study-seattle\)](#)
On March 16, 4 volunteers received an injection of an mRNA vaccine for COVID-19 in an NIH-funded trial in Seattle.

RESEARCH



COVID-19 pandemic research at KPWHRI

[\(/our-research/research-areas/immunization-vaccines/COVID\)](#)
Having long tracked infectious diseases and tested vaccines for safety and effectiveness, KPWHRI now focuses on the novel coronavirus.

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[Center for Community Health and Evaluation \(/about-us/ghri-centers/center-community-health-and-evaluation/\)](#)

Affiliated organizations

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[Kaiser Permanente Washington \(https://www.kp.org/wa\)](https://www.kp.org/wa)

[Washington Permanente Medical Group \(https://www.wpmgcareers.org/index.html\)](https://www.wpmgcareers.org/index.html)

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