

## A look at COVID-19 vaccines already in use, or getting close

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In this Thursday, Jan. 21, 2021 file photo, Joseph Zalman Kleinman, 92, a Holocaust survivor, receives his second dose of the Pfizer vaccine for COVID-19, administered by Linor Attias of United Hatzalah paramedic service at the Clalit Health Services vaccination center at a sports arena in Jerusalem. While a few have already hit the market, there are still dozens of coronavirus vaccines in development around the globe. (AP Photo/Maya Alleruzzo)

While a few have already hit the market, there are still dozens of coronavirus vaccines in [development](#) around the globe.

Some use tried-and-true technologies, other use novel approaches. The shots were all tested differently, and some were allowed to go into use even before they were rigorously tested. How well they work varies, with preliminary study results ranging from 50% effective to over 90%.

So far, regulators in different countries have allowed use of about a half dozen, mostly under emergency use provisions. A few more are getting close. The ones available now all require two doses, given weeks apart.

Among those furthest along:

**Pfizer:** Developed with BioNTech; authorized by the U.S., U.K, European Union, the World Health Organization and elsewhere.

**Moderna:** Developed with the U.S. National Institutes of Health; authorized by the U.S., U.K., European Union, the World Health Organization and elsewhere.

**AstraZeneca:** Developed with Oxford University; authorized by more than 40 countries, including Britain, India, Argentina, Mexico and the European Union.

**Sputnik V:** Developed by Russia's Gamaleya Research Institute; authorized in Russia and about 10 other countries.

**Sinopharm:** Authorized in China and several countries including Hungary, Serbia, and Morocco.

**Sinovac:** Authorized in China as well as Turkey, Brazil and Indonesia.

Bharat Biotech: Authorized in India.

Johnson & Johnson: In development; one dose; expected to seek U.S. Food and Drug Administration authorization soon.

Novavax: In [development](#).

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