



Yakutat Department of Public Safety

Incident Command Covid-19

P.O. Box 110 609 Forest Highway 10

Yakutat, Alaska 99689

Phone: (907) 784-3206 Fax: (907) 784-3523

12/28/2020

The Yakutat IC & YCHC would like to inform the Community of the new Covid-19 Vaccines

PART
1 of 2

The vaccine is based on new mRNA gene therapy and contains no virus. Learn more at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/different-vaccines.html> or <http://dhss.alaska.gov/dph/epi/id/pages/COVID-19/vaccine.aspx> on COVID-19 mRNA vaccines and how they are evaluated for safety and efficacy by the FDA, which has approved them for Emergency use. [Emergency Use Authorization for Vaccines Explained | FDA](#)

New Approach to Vaccines

mRNA vaccines are a new type of vaccine to protect against Covid-19 by triggering an immune response. **Certain types vaccines put a weakened or inactivated virus into our bodies, but these vaccines are different.** Instead, these vaccines teach our cells how to make a protein that triggers an immune response inside our bodies. That immune response, which produces antibodies, and memory T cells, help our immune system identify and attack the Covid 19 virus as it enters our bodies.

Facts about Moderna & Pfizer COVID-19 mRNA Vaccine

- **CURRENTLY STUDIES HAVE FOUND THE NEWLY DEVELOPED mRNA's VACCINES ARE 94.5% SUCCESSFUL IN FIGHTING ALL 6 STRAINS (MUTATIONS) OF COVID-19.**
- The vaccine cannot give someone COVID-19.
- mRNA vaccines do not use the live virus that causes COVID-19.
- Being vaccinated will not cause you to give Covid-19 to others, from the dose of vaccine.
- These vaccines do not affect or interact with our DNA in any way.
- mRNA never enters the nucleus of the cell, which is where our DNA (genetic material) is kept.
- Our cell breaks down and gets rid of the mRNA soon after it is finished using the instructions to produce the protein spike.

Covid-19 Statistics:

- As of this morning there have been 19.3 million confirmed cases, and 335K deaths
- According to the CDC, Covid-19 is currently the 3th leading cause of death (335K) in the US after heart disease (655 K) and cancer (599 K).

Moderna Vaccine Statistics

- Of the 30,000 people in the final trial, 196 got Covid-19. Of this group, 11 had received the vaccine and 185 had received the placebo (fake) dose. Of this 196, 30 went on to develop severe disease, including one death. None of this group had received the vaccine. None receiving the vaccine developed severe disease.



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A Closer Look at How COVID-19 mRNA Vaccines Work

COVID-19 mRNA vaccines give instructions for our cells to make **a harmless piece of what is called the “spike protein.”** The spike protein is found on the surface of the virus that causes COVID-19. Once this spike protein is produced by our cells, our immune system learns to look for this protein and destroy it. After vaccination, if the real Covid 19 virus is spotted by our immune system, the body is now primed to fight it.

Once the instructions (mRNA) are inside the immune cells, the cells use them to make the protein piece. After our cells make copies of the protein, they destroy the genetic material from the vaccine

Next, the cell displays the protein piece on its surface. Our immune systems recognize that the protein doesn't belong there and begins building an immune response and making antibodies, like what happens in natural infection of COVID-19.

At the end of the process, our bodies have learned how to protect against future infection. The benefit of mRNA vaccines, like all vaccines, is those vaccinated gain this protection without ever having to risk the serious consequences of getting sick with COVID-19.