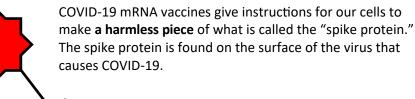
HOW mRNA VACCINES WORK



COVID-19 mRNA vaccines are given in the upper arm muscle. Once the instructions (mRNA) are inside the immune cells, the cells use them to make the protein piece. After the protein piece is made, the cell breaks down the instructions and gets rid of them.

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

Facts about COVID-19 mRNA Vaccines

They cannot give someone COVID-19.

• mRNA vaccines do not use the live virus that causes COVID-19.

They 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.
- The cell breaks down and gets rid of the mRNA soon after it is finished using the instructions.

For more information on the Covid-19 vaccine you can visit the following:

https://www.cdc.gov/coronavirus/2019-ncov/vaccines/

https://www.uabmedicine.org/documents/142028/930424/COVID-19+Vaccine+Patient+Frequently+Asked+Questions/d13145c5-fd3d-7571-b579-0c0bff8e8afe

https://www.alabamapublichealth.gov/covid19/vaccine.html