# What is a mRNA COVID-19 Vaccine?

COVID-19 has spread throughout the world, killing more than 2.3 million people

Conventional vaccine approaches take a long time to manufacture and are not as effective against rapidly evolving viruses

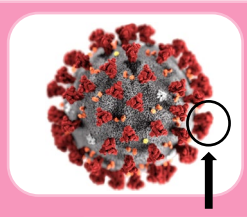
mRNA vaccines have been studies since the 1990s and are a promising new type of vaccine[1]

**This pandemic calls for a low-cost vaccine which can be developed rapidly and easily distributed to the many corners of the world.**

## mRNA

- mRNA provide the instructions for the cell to make a protein
- mRNA is **faster** and **cheaper** to produce than traditional vaccine components[1]
- mRNA vaccines are **safer** since they do not use copies of the live virus like some vaccines[1]

## mRNA Vaccines

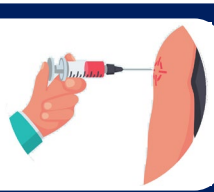


- **COVID-19's signature spike protein is produced by your cells using the vaccine's mRNA, triggering an immune response**
- **The mRNA is harmlessly degraded after use**
- **The body will then recognize the spike protein on COVID-19 if it enters the body, and be equipped to fight it**

**COVID-19 mRNA vaccines are 100% effective at preventing death and hospitalization from the novel coronavirus[2]**

**Herd immunity will help end the COVID-19 pandemic.**

**Get Vaccinated, Save Lives**



[1]Pardi N, Hogan MJ, Porter FW, et al. Nat Rev Drug Discov. 2018; 17(4): 261-279.
[2]Meo SA, Bukhari IA, Akram J, Meo AS, Klonoff DC. Eur Rev Med Pharmacol Sci. 2021 Feb;25(3):1663-1669.