

# Can You Have COVID 19 Vaccine For Prophylaxis and Suffer From Vaccine Complication!

Mohammed Samer Wadi 2537

Supervisor: Dr. Khadija Mansori

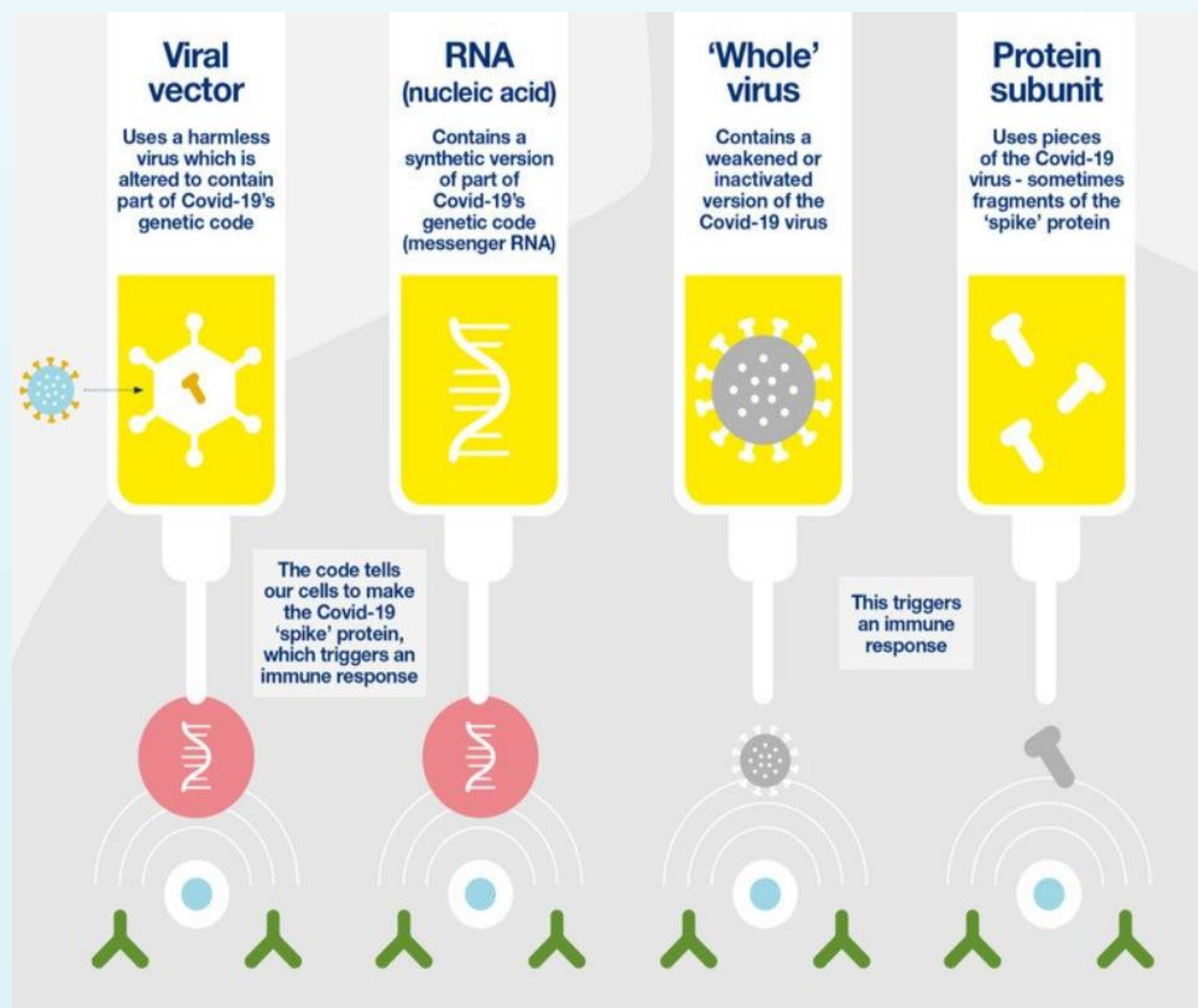
LIBYAN INTERNATIONAL MEDICAL UNIVERSTIY



## Introduction

- COVID-19) is a contagious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The first known case was identified in Wuhan, China, in December 2019. The disease has since spread worldwide, leading to an ongoing pandemic.<sup>1</sup>
- Types of vaccine:

- 1) RNA vaccine
- 2) DNA vaccine
- 3) Vector vaccine



Adopted from US<sup>3</sup>

## Methodology

- By using 4 peppers.

## Discussion

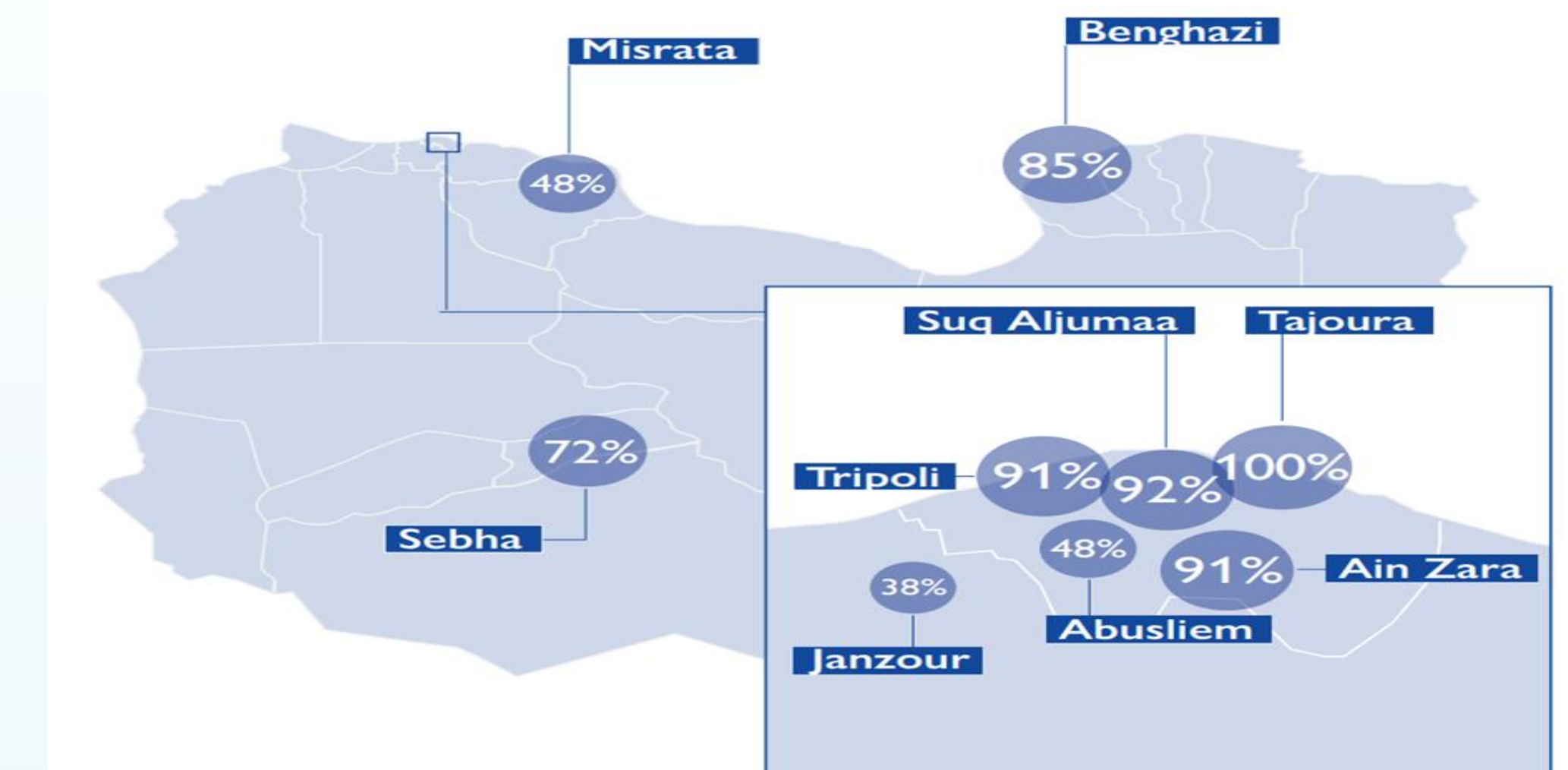
- **Adenovirus vector vaccines** is the world's first registered vaccine based on a well-studied human adenovirus vector platform. It has been approved for use in 71 countries with a total population of 4 billion people.
- Vaccine induced thrombotic thrombocytopenia, which are estimated to occur in 1 in 100,000 vaccinated people.
- **Anaphylaxis after Adenovirus vector COVID-19 vaccination is rare** and has occurred in approximately 5 people per one million vaccinated in the United States.
- **Thrombosis with thrombocytopenia syndrome (TTS) after Adenovirus vector COVID-19 vaccination is rare.** TTS is a rare but serious adverse event that causes blood clots in large blood vessels and low platelets (blood cells that help form clots).
- As of December 16, 2021, more than 17.2 million doses of the Adenovirus vector COVID-19 vaccine have been given in the United States. CDC and FDA identified 57 confirmed reports of people who got the Adenovirus vector COVID-19 vaccine and later developed TTS.



- **The mRNA vaccine** COVID-19 vaccine is used to provide protection against COVID-19, caused by infection with the SARS-CoV-2 virus, by eliciting an immune response to the S antigen.
- **Myocarditis and pericarditis after mRNA vaccine COVID-19 vaccination are rare.**
- Cases of myocarditis reported to the Vaccine Adverse Event Reporting System (VAERS)external have occurred.
- After mRNA COVID-19 vaccination (Pfizer-BioNTech or Moderna), especially in male adolescents and young adults.
- As of December 16, 2021, VAERS (Vaccine Adverse Event Reporting System )has received 1,947 preliminary reports of myocarditis or pericarditis among people ages 30 years and younger who received mRNA COVID-19 vaccines.



- **Guillain-Barré Syndrome (GBS):** in people who have received the Adenovirus vector COVID-19 vaccine is rare. GBS is a rare disorder where the body's immune system damages nerve cells, causing muscle weakness and sometimes paralysis
- After more than 17.2 million Adenovirus vector COVID-19 vaccine doses administered, there have been around 283 preliminary reports of GBS identified in VAERS (Vaccine Adverse Event Reporting System) as of December 16, 2021.
- These cases have largely been reported about 2 weeks after vaccination and mostly in men, many in those ages 50 years and older.<sup>2</sup>



Adopted from IOM.<sup>4</sup>

- **Common minor side effects 64%** include: old age(**33%**), Pergnancy(**23%**), Blood clot(**15**), Allergy(**14%**), GBS (**5%**), Becoming magnetic(**16%**), Myocarditis and pericarditis (**4%**)<sup>4</sup>

## Conclusion

- In conclusion, we learned that the side effects of the covid 19 vaccination are far more dangerous than the covid 19 infection itself, which affects patient's quality of life or can lead to death if these complications are not detected and treated, which are specific to old age, pregnant women, patients have chronic illness and people have the risk.

## References

- 1-"NYC Vs.Covid19 – The Cost Of Fighting The Most Expensive Pandemic In History". Nycvscovid19.Commons.Gc.Cuny.Edu, 2022, <https://nycvscovid19.commonsgc.cuny.edu/2021/12/02/nyc-vs-covid19/>.
- 2-<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/adverse-events.html>
- 3-vaccines, S., Covid-19?, H. and hub, C., 2022. What different types of Covid-19 vaccine are there? | News | Wellcome. [online] Wellcome. Available at: <<https://wellcome.org/news/what-different-types-covid-19-vaccine-are-there>> [Accessed 14 June 2022]
- 4-- Displacement.iom.int. 2022. [online] Available at: <[https://displacement.iom.int/sites/default/files/public/reports/DTM\\_Libya\\_MHD\\_K\\_AP\\_Report\\_FINAL.pdf](https://displacement.iom.int/sites/default/files/public/reports/DTM_Libya_MHD_K_AP_Report_FINAL.pdf)> [Accessed 14 June 2022].