

COVID-19 VACCINE 411



Type of vaccine:

- *This is a mRNA vaccine (1)
- *Our cells get instructions on how to make a harmless protein
- *The cells make copies of the protein, which destroy the genetic material from the vaccine
- *Our bodies remember this and can fight off the infection if infected in the future



CHEAPER, FASTER, AND WILL NOT CHANGE OUR GENETIC MATERIAL



BOTH VACCINES HAVE SIDE EFFECTS THAT ARE NORMAL FOR VACCINES

Side Effects for both (1):

- *After the 1st dose- fatigue, headache, joint pain, chills
- *After the 2nd dose- fatigue, chills, headache, nausea, joint pain, fever

PFIZER

- *It has 95% efficacy** when 2 doses are given (2,3)
- *The efficacy is consistent across all age groups, racial and ethnic minorities, and people with underlying conditions, such as obesity, diabetes and high blood pressure (3,5)

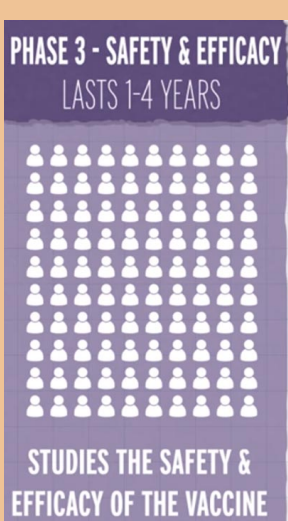
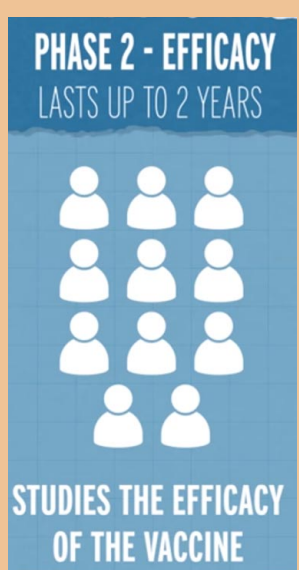
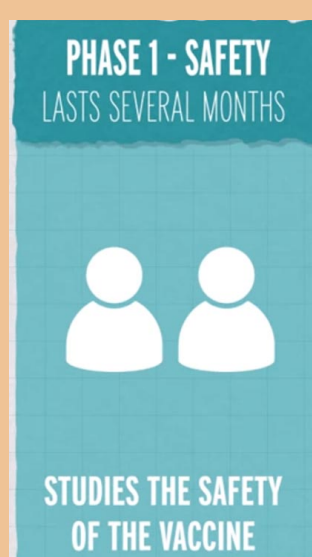
VS

The efficacy percentages are based on all 3 phases of the trials



MODERNA

- *It has 94.5% efficacy** when 2 doses are given (2,8)
- *Efficacy was consistent across age, race and ethnicity, and gender demographics (8)



Be cautious if (6):

- You had a severe allergic reaction after a previous dose of this vaccine
- You had a severe allergic reaction to any ingredient in the vaccine
- You are under the age of 16
- You are pregnant



COVID-19 VACCINE 411



PFIZER

43,661 participants enrolled in the phase 3 trial with half getting the vaccine and half getting the **placebo (6,7)

Pfizer vaccine to be taken 3 weeks apart (2) as 2 doses are needed.

Pfizer vaccine needs to be stored at ultracold temperatures (-60 to -80 C) (2,6)

VS

What phase are we in:

- Phases- Priority of the population able to receive the vaccine (5)
- Phase 1a is currently in the works regarding prioritization of who will get the vaccine (5).

MODERNA

30,000 participants were involved in the trials with half getting the vaccine and half getting the **placebo (2)

Moderna vaccine to be taken 4 weeks apart (2) as 2 doses are needed.

Moderna vaccine needs to be stored at a frozen temperature (-20 C) (2,6)

Important Note:

There is no evidence that either Vaccine is safer or more effective than the other based on the information we have. However, be sure to get a booster of the same kind within the interval mentioned above.

IT IS STILL IMPORTANT TO



Important Definitions:

****Efficacy-** the capacity to produce an effect. It can be assessed accurately only in ideal conditions, thus it is measured under expert supervision in a group of patients most likely to have a response to a drug, such as in a controlled clinical trial. (9)

****Placebo-** are inactive substances or interventions, most often used in controlled studies for comparison with potentially active drugs. (10)

"We can say with confidence that it is okay to start vaccinating people. It's a risk—benefit situation, and the benefits should substantially outweigh the risks"

Dr. Saad Omer- PhD, Director of the Yale Institute for Global Health

Learn more about V-Safe:

-V-Safe is an app that can be downloaded on any smart phone to report any side effects resulting from a vaccination. Learn more by clicking on the link.

<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/vsafe.html>

Shots
Don't you fret
Don't you cry
The pain will pass
by and by.
It might hurt
It might swell
but It will help you
to stay well.
Izzzy and Sarah.

<https://www.immunize.org/nsit.d/n71/n71.pdf>

Learn more about the COVID-19 Vaccination:

-Lead the way!

Encourage your coworkers, patients, family and friends to get vaccinated.

<https://www.cdc.gov/vaccines/covid-19/index.html>

SOURCE:

1. https://mcusercontent.com/B90FD5A5754D9C248177EA031/FILES/A621E45B-4D24-420F-8E59-CD188E69117C/VACCINE_NEWSLETTER.PDF
2. <https://www.bbc.com/news/health-51665497>
3. <https://www.nbcnews.com/health/health-news/fda-pfizer-s-covid-19-vaccine-safe-effective-after-one-n1250337>
4. <https://www.nejm.org/doi/full/10.1056/NEJM0A2034577>
5. <https://www.cdc.gov/vaccines/imz-managers/downloads/covid-19-vaccination-program-interim-playbook.pdf>
6. <https://www.fda.gov/media/144413/download>
7. <https://www.pfizer.com/news/press-release/press-release-detail/pfizer-and-biontech-conclude-phase-3-study-covid-19-vaccine>
8. <https://investors.modernatx.com/news-releases/news-release-details/moderna-announces-primary-efficacy-analysis-phase-3-covid-19-vaccine>
9. <https://www.merckmanuals.com/professional/clinical-pharmacology/concepts-in-pharmacotherapy/drug-efficacy-and-safety>
10. <https://www.merckmanuals.com/professional/clinical-pharmacology/concepts-in-pharmacotherapy/placebos>
11. <https://www.cdc.gov/flu/pandemic-resources/national-strategy/planning-guidance/pandemic-severities-tier-1.html>