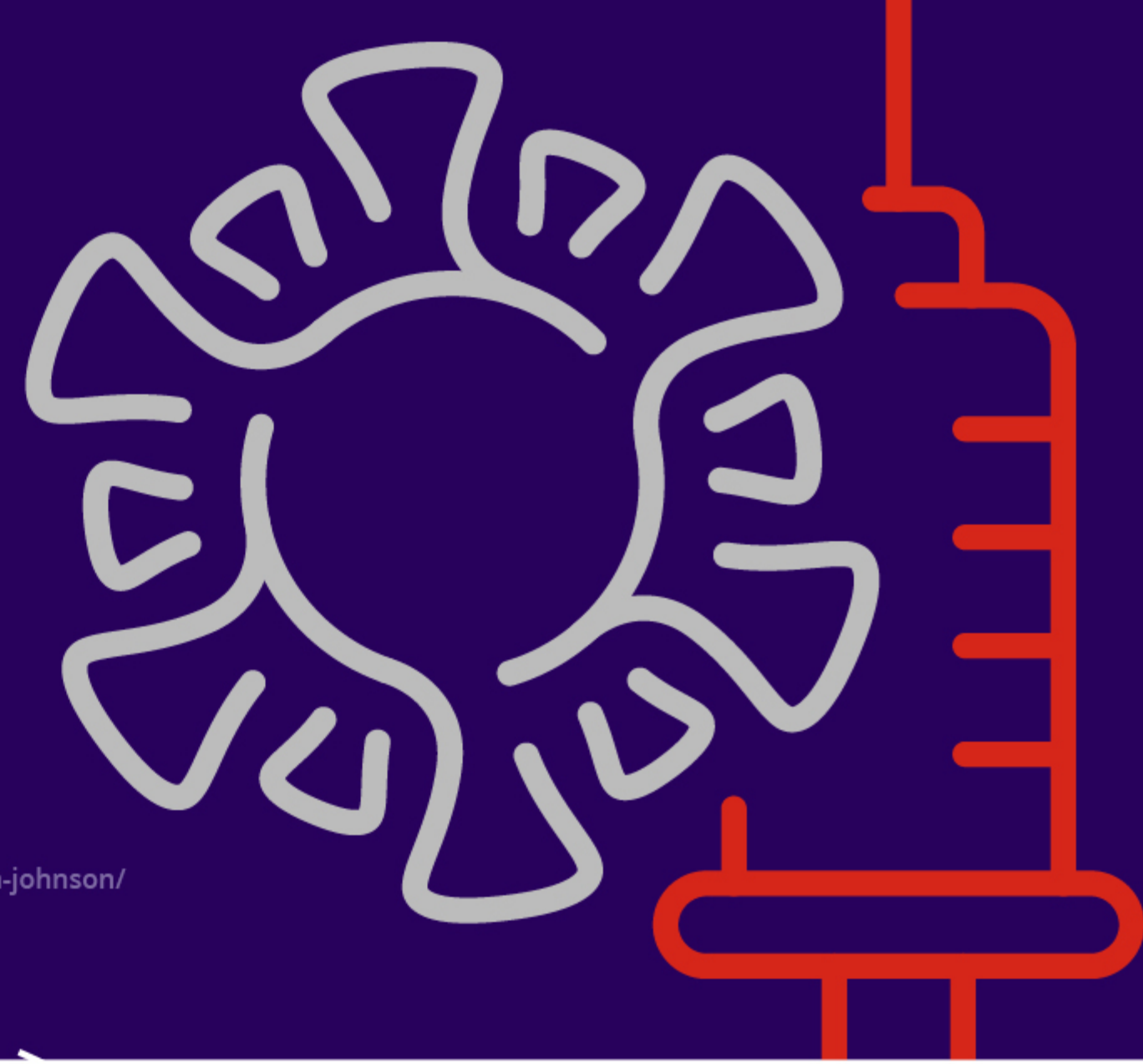




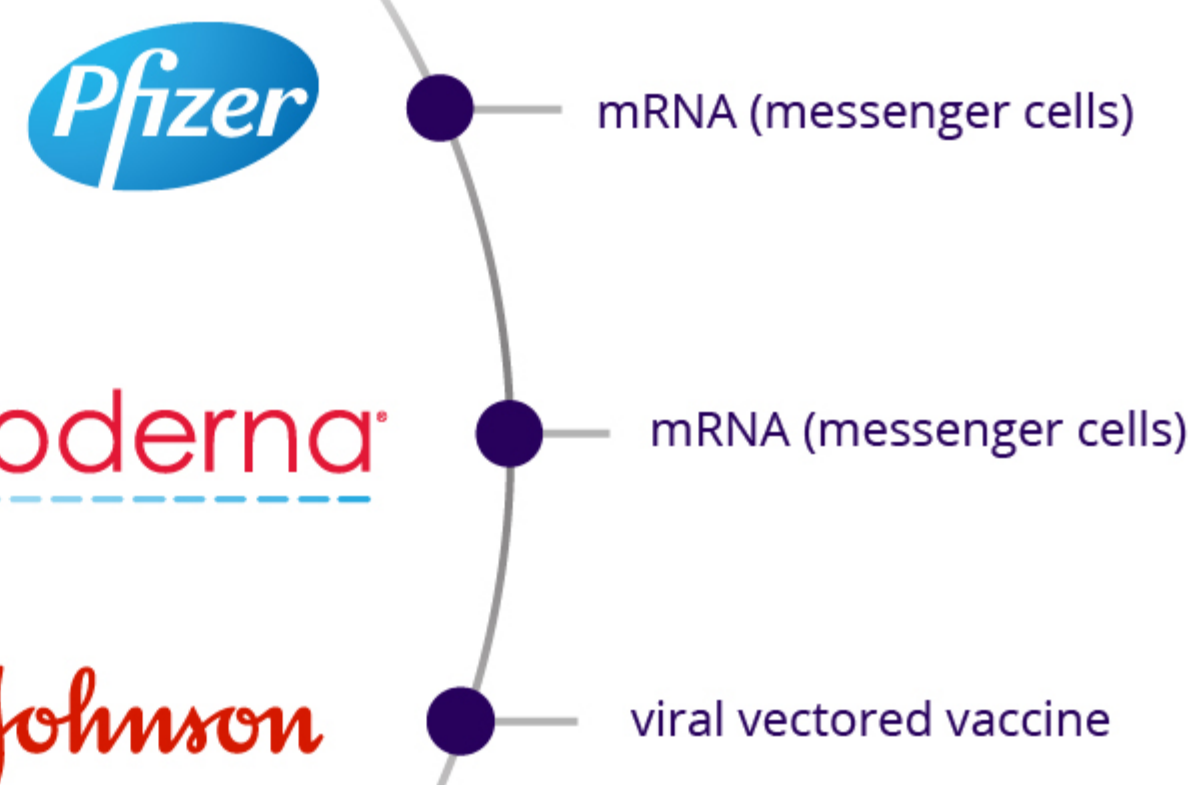
Potential side-effects of the vaccines: injection site pain, fatigue, headache, muscle pain, and joint pain, fever.

“These side effects are a sign of an immune system kicking into gear. They do not signal that the vaccine is unsafe.”

<https://www.statnews.com/2021/02/02/comparing-the-covid-19-vaccines-developed-by-pfizer-moderna-and-johnson-johnson/>



How The COVID-19 Vaccines Work in Your Cells



Facts About COVID-19 mRNA Vaccines

✓ The vaccine cannot give someone COVID-19. mRNA vaccines do not use the live virus that causes COVID-19.

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

Advantages and Disadvantages of Viral Vector-Based Vaccines

- 1 Well-established technology
- 2 Strong immune response
- 3 Immune response involves B cells and T cells
- 4 Previous exposure to the vector could reduce effectiveness
- 5 Relatively complex to manufacture

Source: <https://bit.ly/3c97kEu>

Advantages of mRNA Vaccines for Protection Against COVID-19

- 1 mRNA vaccines use non-infectious element.
- 2 Have shorter manufacturing times.
- 3 Can target multiple diseases.
- 4 mRNA vaccines are developed in a laboratory using a DNA template and readily available materials.
- 5 Administration process can be standardized.
- 6 DNA and RNA vaccines typically can be moved most rapidly into the clinic for initial testing.

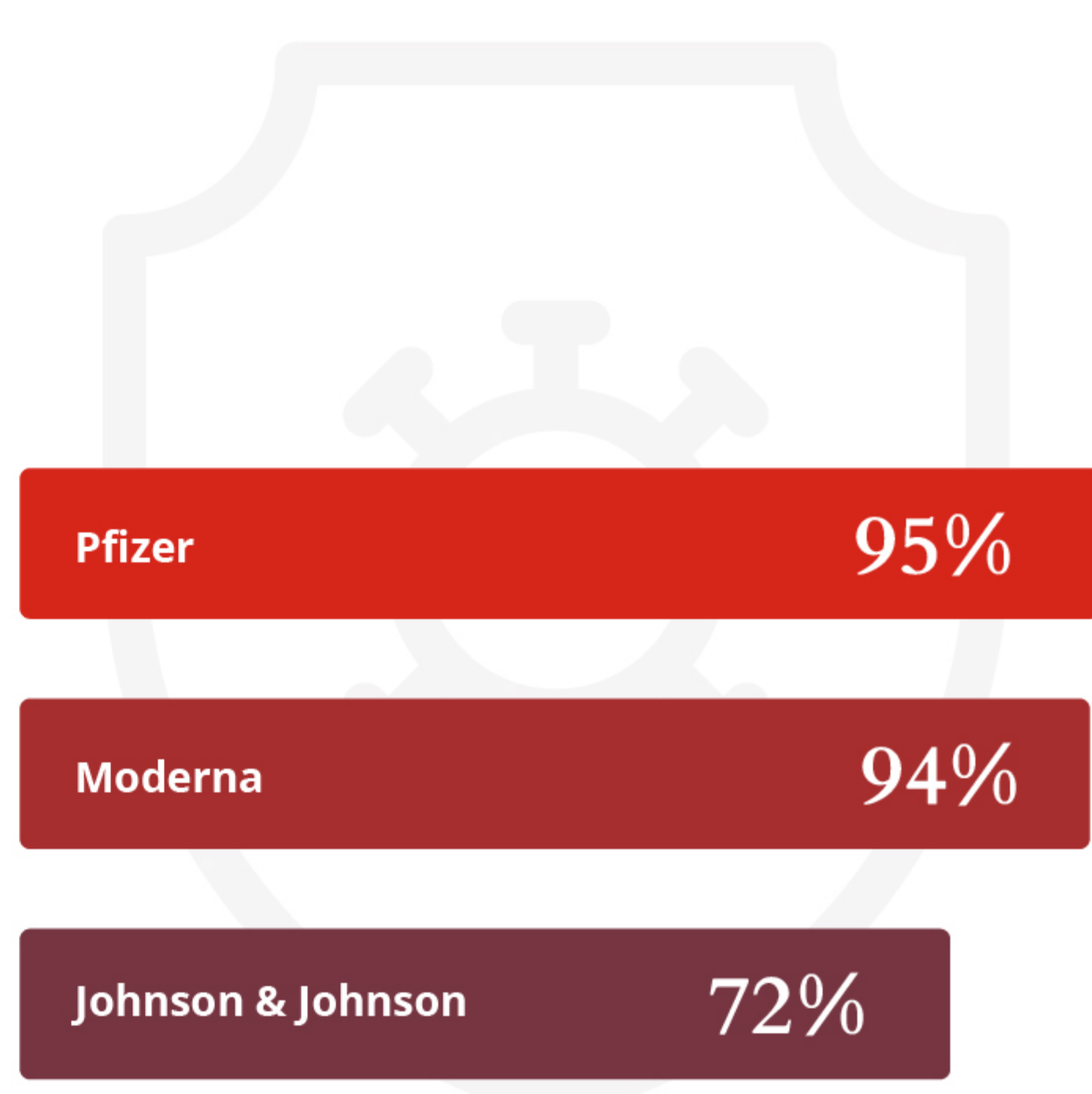
Source: <https://bit.ly/38dhZNq>

How Effective is the COVID-19 Vaccine?

With so much stress and fear surrounding Covid-19, many Americans don't know if the vaccine is effective at reducing infection rates. Further, many question if one vaccine is a better option than the other.

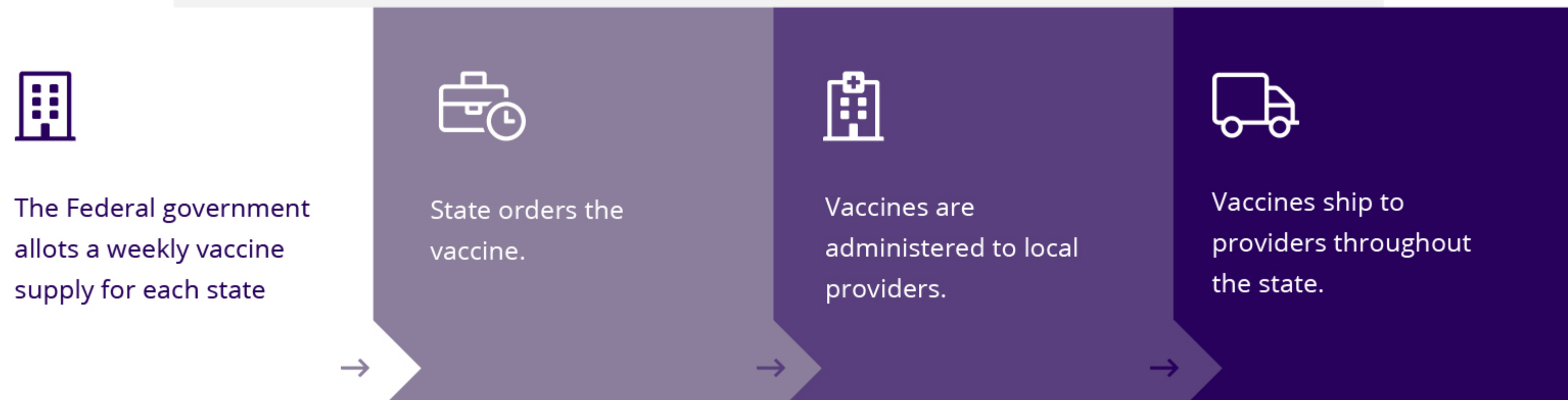
“The perception stems from the headline rates of effectiveness of the three vaccines: 72 percent for Johnson & Johnson, compared with 94 percent for Moderna and 95 percent for Pfizer. But those headline rates can be misleading in a few ways.

All three vaccines being used in the U.S. are accomplishing that goal. In the research trials, none of the people who received a vaccine died of Covid. And after the vaccines had taken full effect, none were hospitalized, either.” -NYT



Source: https://www.cdc.gov/coronavirus/2019-ncov/downloads/vaccines/COVID-19-mRNA-infographic_G_508.pdf

How the Vaccine Travels to Your State



Delivery and Storage Requirements for the Vaccine

Vaccine	Storage Requirements	Minimum Order
Pfizer	-94 Fahrenheit	975 Doses
Moderna	-4 Fahrenheit	100 Doses
Johnson & Johnson	Normal Refrigeration	Declined to comment

Target Population

Vaccine	Target Population	Efficacy
Pfizer	+16	95%
moderna	+18	94.1%
Johnson & Johnson	+18	72%

