Putting COVID Numbers and Vaccinations into Context

August 30, 2021
People often have a hard time grappling with large numbers. This exercise is intended to put COVID numbers into a more familiar (and hopefully meaningful) context.

Our Legend:

- = one person
- - - - - - - - - - = 15 people
- - - - - - - - - - - - - - - - - = 300 people
On average, how many people are killed by sharks in the US each year?

= 0.5 people (16 attacks each year, one fatality every other year)
On average, how many people die from lightning strikes in the US each year?

= 41 people
On average, how many people die from tornadoes in the US each year?

= 80 people
On average, how many people drown in the US each year?

= 3,960 people
On average, how many traffic fatalities in the US each year?

= 38,000 people
On average, how many gun deaths in the US each year?

= 39,707 people
(14,861 homicides)
How many flu deaths in the US (average for last 10 years)?
How many COVID deaths in the US (January 2020 – August 18, 2021)?

Deaths from January 2020 – February 2021 (Before vaccines became available) = 433,971

Deaths between February 1 and August 18, 2021 (After vaccines became available) = 181,000

= 614,531
Do Vaccinations Work?

- Approximately 170,000,000 Americans are vaccinated (leaving around 165,000,000 Americans who are unvaccinated). So, we are nearly split 50/50.
- If vaccinations have no effect, the death toll would look nearly identical between the vaccinated and unvaccinated.

5,564 people died from COVID during the week of August 15-21.

Here is the split we would expect, if vaccinations made no difference.

- Unvaccinated People
- Vaccinated People
But here are the data we actually see!

- There were 5,564 COVID deaths during the week of August 15\textsuperscript{th} to August 21\textsuperscript{st}
- Depending upon the state you are in, the proportion of vaccinated people who die from COVID ranges from 0.1\% to 5\% of COVID all deaths.

Approximately 5,286 unvaccinated people died from COVID during the week of August 15-21.
Vaccinations Work!

- We hope these illustrations are helpful. We think the data provides a pretty clear picture!
- Be safe. Reduce your risk. Get your vaccine.

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