

COVID-19 Hospitalizations

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Plots

TODO: Add plots here

COVID-19 Hospitalizations

COVID-19 hospitalization data is openly reported but the information provided is being misrepresented. Take for example the following Facebook post:

While accurate with regards to the numbers, Little is implying that vaccination does not work as more people are in hospital who have been vaccinated than those that have not. This is a dis-representation because the empathizes Little makes is on the *absolute number* rather than the rate of the vaccinated vs un-vaccinated.

As an example let's use some data roughly in accordance with the figures available from the same source as Little's, namely NSW health.

```
tot_pop <- 1000
vax_pop <- 0.929 * tot_pop
unvax_pop <- (1 - 0.929) * tot_pop

vax_hos <- sum (2627, 215)
unvax_hos <- sum (315, 55)

vax_death <- 67
unvax_death <- 21
```

Rate of un-vaccinated in hospital is:

NSW DEATHS - yesterday - 21 out of 24 had received AT LEAST ONE SHOT!! - only two deaths below 65 years, one had two shots, the other had three !! #chasetruth

TODAY - 23 out of 29 deaths got the shots - only one death under 65

HEALTH.NSW.GOV.AU

News - COVID-19 (Coronavirus) statistics

Across NSW, more than 95 per cent of people aged 16 and over have received a...

COVID-19 vaccines go through many tests for safety and effectiveness and are then monitored closely.
Source: World Health Organization
[Get Vaccine Info](#)

Figure 1: Peter Little

```
unvax_rate <- unvax_hos / unvax_pop
unvax_rate
```

```
## [1] 5.211268
```

Rate of vaccinated in hospital is:

```
vax_rate <- vax_hos / vax_pop
vax_rate
```

```
## [1] 3.059203
```

References

- The Guardian: The simple numbers every government should use to fight anti-vaccine misinformation
- OurWorldInData: How do death rates from COVID-19 differ between people who are vaccinated and those who are not?
- COVID-19 WEEKLY SURVEILLANCE IN NSW, EPIDEMIOLOGICAL WEEK 01 ENDING 8 JANUARY 2022, Published 20 January 2022
- NSW Vaccination Status
- COVID-19 WEEKLY SURVEILLANCE IN NSW, EPIDEMIOLOGICAL WEEK 01 ENDING 8 JANUARY 2022, Published 20 January 2022 In this report, table 5 shows Hospitalisations, ICU admissions

sions and deaths among cases diagnosed with COVID-19, by vaccination status, NSW, from 26 November 2021 to 8 January 2022.