

COVID-19 Hospitalizations

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Contents

Plots	1
COVID-19 Hospitalizations	1
References	2

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:



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 admis-

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