https://www.andrewbostom.org/2022/01/december-2021-rhode-island-department-of-health-data-confirm-priorcovid-19-infection-naturally-acquired-immunity-regardless-of-vaccination-status-confers-an-28-fold-lower-risk-forcovid-19-mortali/

December 2021 Rhode Island Department of Health Data Confirm Prior Covid-19 Infection/Naturally Acquired Immunity, Regardless of Vaccination Status, Confers An ~28-Fold Lower Risk for Covid-19 Mortality, and An ~6-Fold Lower Risk for Covid-19 Hospitalization, Relative to Full Vaccination

Posted on <u>19th January 2022</u> | <u>Leave a comment</u> | <u>Edit</u>

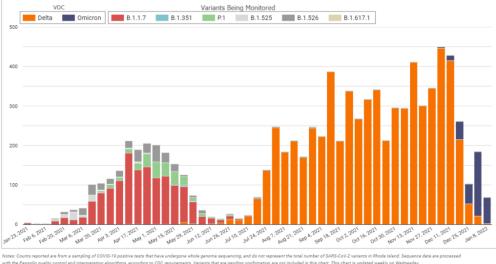
Bottom line:

There was ~6X lower risk of covid-19 hospitalization and ~28X lower risk of covid-19 death, <u>comparing those with</u> <u>natural immunity to covid-19</u>, <u>regardless of vaccination status</u>, <u>to those fully vaccinated</u>

Hyperlink to e-mail from Rhode Island Department of Health (RIDOH) releasing data: <u>December 2021 data latter from</u> <u>RIDOH</u>

Link to excel file with raw RIDOH data: <u>RIDOH Dec 21</u> <u>RIDOH data</u> on covid-19 variants:

Number of SARS-CoV-2 Variants Detected in Rhode Island by Week



with the Pangolin quality control and interpre Source: Rhode Island Department of Health

Estimates of fully vaccinated, not fully vaccinated, and previously infected at November, 2021 midpoint (11/15/21) from RIDOH, U.S. census data (July 1, 2021; n=1,095,

610) <u>https://www.census.gov/quickfacts/fact/table/RI/PST045219</u>, and <u>https://covidestim.org/</u> (a CDC sponsored website run by Harvard, Stanford, & Yale epidemiologists; n=66% of Rhode Islanders were infected, cumulatively, at some point during the pandemic as of 12/16/21): 756 950 fully vaccinated

–756,950 fully vaccinated

-338,660 not fully vaccinated

-723,103 with a history of prior infection at some point during the pandemic

1,243 hospitalizations (with/from covid-19)

-395 (38.8%) among fully vaccinated; **Rate= 52.2/100,000** -848 (68.2%) among not fully vaccinated; **Rate= 250.4/100,000** -54 (4.3%) among previously infected regardless of vaccination status; **Rate= 7.5/100,000** <u>152 deaths (with/from covid-19)</u> -59 (38.8%) among fully vaccinated; **Rate= 7.8/100,000**

-93 (61.2%) among not fully vaccinated; Rate= 27.5/100,000

-2 (1.3%) among previously infected regardless of vaccination status; **Rate=0.3/100,000**

Rhode Island raw data on covid-19 infections by vaccination and prior infection status, December, 2021

Rhode Island raw data on covid-19 infections by vaccination and prior infection status, December, 2021

Group	Infections	Hospitalizations	Deaths
	(% total)	(% total)	(% total)
Fully vaccinated			
-No prior infection	21,365 (46.4)	363 (29.2)	58 (38.1)
-Prior infection	2,249 (4.9)	32 (2.6)	1 (0.7)
		· · ·	
Not fully vaccinated			
-No prior infection	20,842 (45.3)	826 (66.5)	92 (60.5)
-Prior infection	1,551 (3.4)	22 (1.8)	1 (0.7)
Totals	46,007	1,243	152

Rhode Island relative risk estimates for hospitalizations and deaths comparing fully vaccinated (n=363 hospitalizations; n=58 deaths) to those with a prior infection (n=54 hospitalizations; n=2 deaths), regardless of vaccination status, December, 2021

Relative risk calculator

Exposed group	
Number with positive (bad) outcome:	54 a
Number with negative (good) outcome:	723049 b
Control group	
Number with positive (bad) outcome:	363 c
Number with negative (good) outcome:	756587 d
	Test

Results

Relative risk	0.1557
95% CI	0.1170 to 0.2073
z statistic	12.751
Significance level	P < 0.0001

Relative risk calculator

Exposed group	
Number with positive (bad) outcome:	2a
Number with negative (good) outcome:	723101 b
Control group	
Number with positive (bad) outcome:	58 c
Number with negative (good) outcome:	756892 d
	Test

Results

Relative risk	0.0361
95% CI	0.0088 to 0.1478
z statistic	4.618
Significance level	P < 0.0001