Does the Pfizer Vaccine Prevent COVID?

The EUA Document Results Comparing Vaccinated with Non-Vaccinated Individuals

7 Days after 2nd Injection there were fewer cases of COVID but The Difference in the number of cases wasn't statistically significant. *p=NS*

Table 6. Final Analysis of Efficacy of BNT162b2 Against Confirmed COVID-19 From 7 Days After Dose 2 in Participants Without Evidence of Prior SARS-CoV-2 Infection - Evaluable Efficacy Population

Pre-specified Age Group	BNT162b2 N[a] = 18198 Cases n1[b] Surveillance Time[c] (n2[d])	Placebo N[a] =18325 Cases n1[b] Surveillance Time[c] (n2[d])	Vaccine Efficacy % (95% CI)	Met Predefined Success Criterion*
All participants	8 2.214 (17411)	162 2.222 (17511)	95.0 (90.3, 97.6)[e]	Yes
16 to 55 years	5 1.234 (9897)	114 1.239 (9955)	95.6 (89.4, 98.6)[f]	NA
> 55 years and older	3 0.980 (7500)	48 0.983 (7543)	93.7 (80.6, 98.8)[f]	NA

*Success criterion: the posterior probability that true vaccine efficacy > 30% conditioning on the available data is >99.5% at the final analysis

[a] N = number of participants in the specified group.

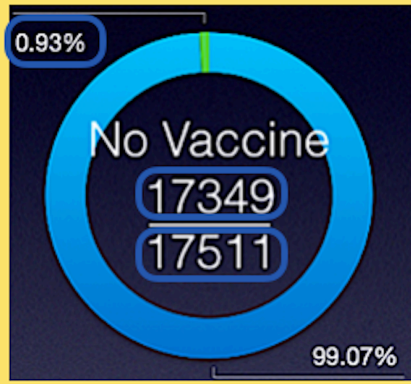
[b] n1 = Number of participants meeting the endpoint definition.

[c] Total surveillance time in 1000 person-years for the given endpoint across all participants within each group at risk for the endpoint. Time period for COVID-19 case accrual is from 7 days after Dose 2 to the end of the surveillance period.

[d] n2 = Number of participants at risk for the endpoint.

[e] Credible interval for VE was calculated using a beta-binomial model with prior beta (0.700102, 1) adjusted for surveillance time.

[f] Confidence interval (CI) for VE is derived based on the Clopper and Pearson method adjusted to the surveillance time.



	Observed	Expected	Marginal Row Totals
Pfizer	17403 (17326.25) [0.34]	17249 (17325.75) [0.34]	34652
Nothing	17349 (17425.75) [0.34]	17502 (17425.25) [0.34]	34851
Marginal Column Totals	34752	34751	69503 (Grand Total)

The chi-square statistic is 1.3561. The *p*-value is .244218. *Not* significant at $p < .05$.

The chi-square statistic with Yates correction is 1.3385. The *p*-value is .247304. *Not* significant at $p < .05$.

Absolute Risk Reduction (ARR) = 0.93% minus 0.05% = 0.88%