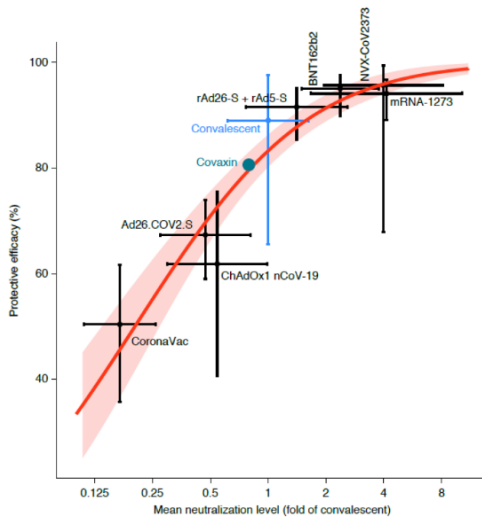
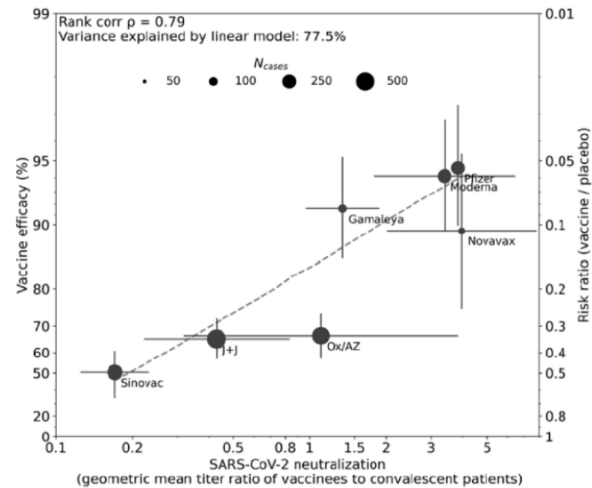


Robust correlation between vaccine efficacy against symptomatic disease and mean neutralizing antibody titer: Two studies

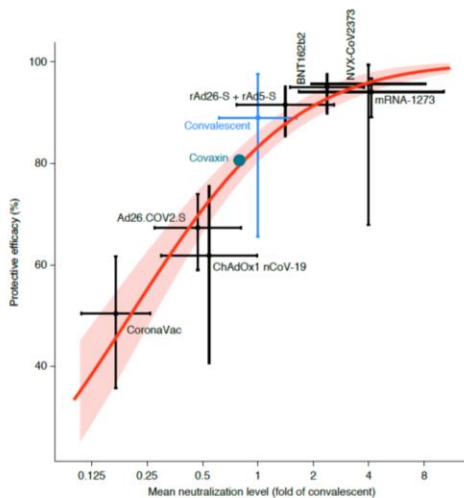


[Khoury et al. Nature Medicine \(2021\)](#)



[Earle et al. medRxiv preprint \(Mar 20 2021\)](#)

Robust correlation between vaccine efficacy against symptomatic disease and mean neutralizing antibody titer: Two studies



[Khoury et al. Nature Medicine \(2021\)](#)

- Suggests **54 IU/ml** as correlate of protection (20% of mean convalescent titer)
- Threshold of protection against **severe disease** is lower (3% of mean convalescent titer), less affected by vaccine differences
- For variants, 5-fold lower neutralizing titer predicted to reduce efficacy from 95% to 77% in high efficacy vaccine, or from 70% to 32% for lower efficacy vaccine



Above slides are from CDC presentation by Sara Oliver MD, MSPH, at ACIP Meeting June 23, 2021