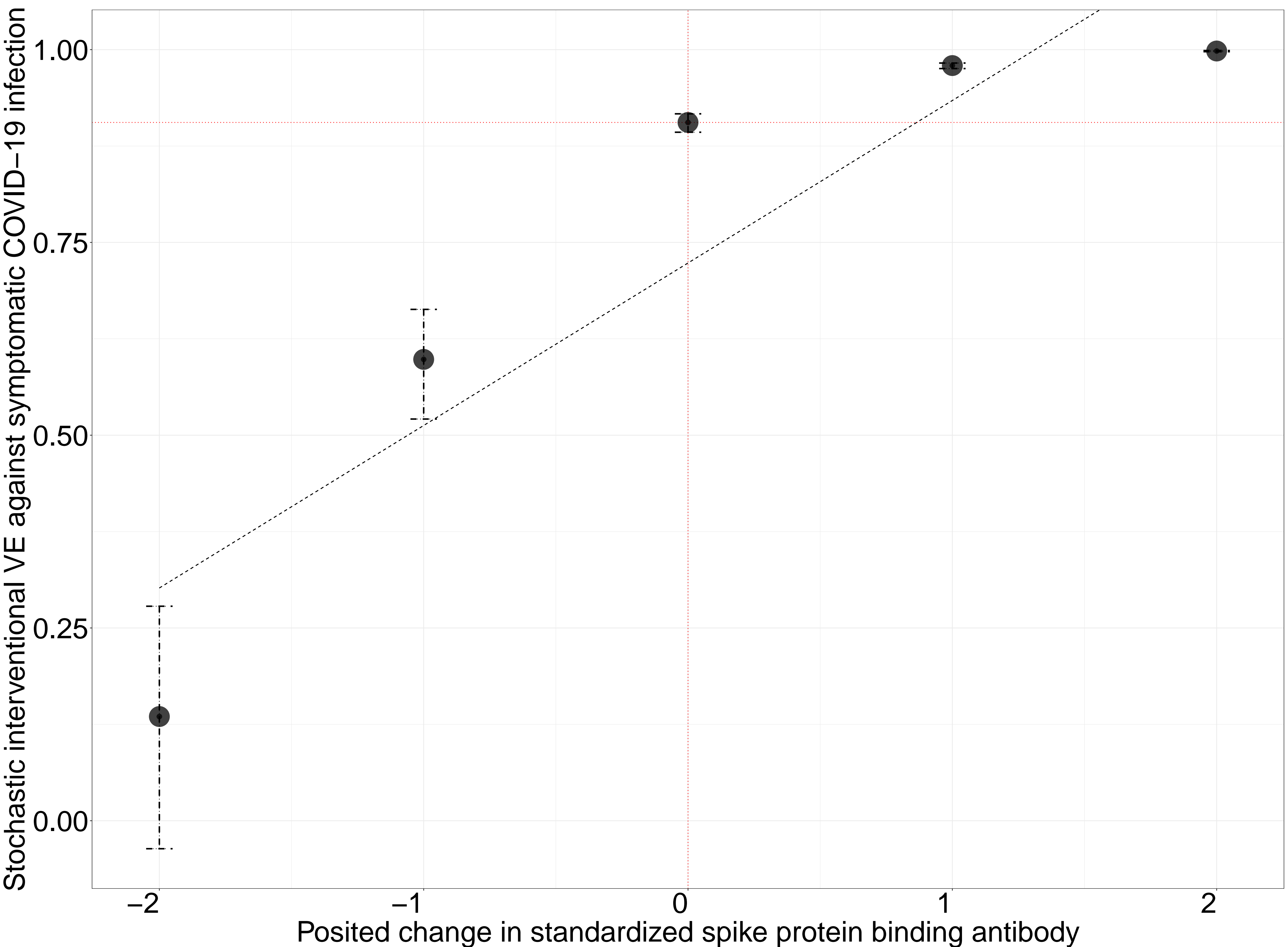


Estimated vaccine efficacy v. symptomatic COVID–19 infection at Day 57

working MSM summary: ($\hat{\beta}_{\text{TMLE}} = 0.2107$, p-value = $1\text{e-}04$)



Stochastic interventional vaccine efficacy v. COVID–19 infection across standardized shifts in spike protein binding antibody levels, summarized by projection of causal dose–response curve on a linear working model.