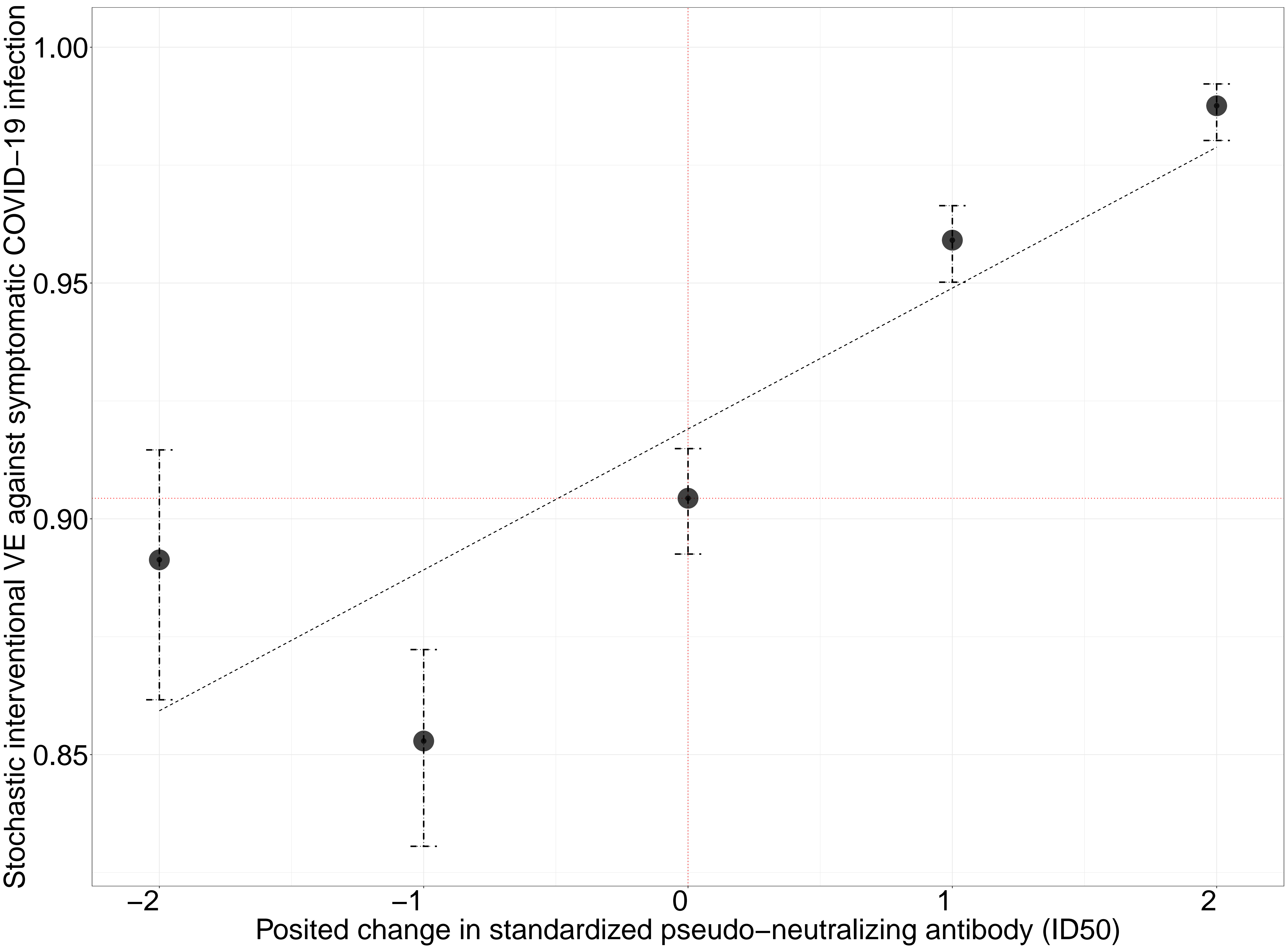


Estimated vaccine efficacy v. symptomatic COVID–19 infection at Day 29

working MSM summary: ($\hat{\beta}_{\text{TMLE}} = 0.0299$, p–value = 0.6189)



Stochastic interventional vaccine efficacy v. COVID–19 infection across standardized shifts in pseudo–neutralizing antibody (ID50) levels, summarized by projection of causal dose–response curve on a linear working model.