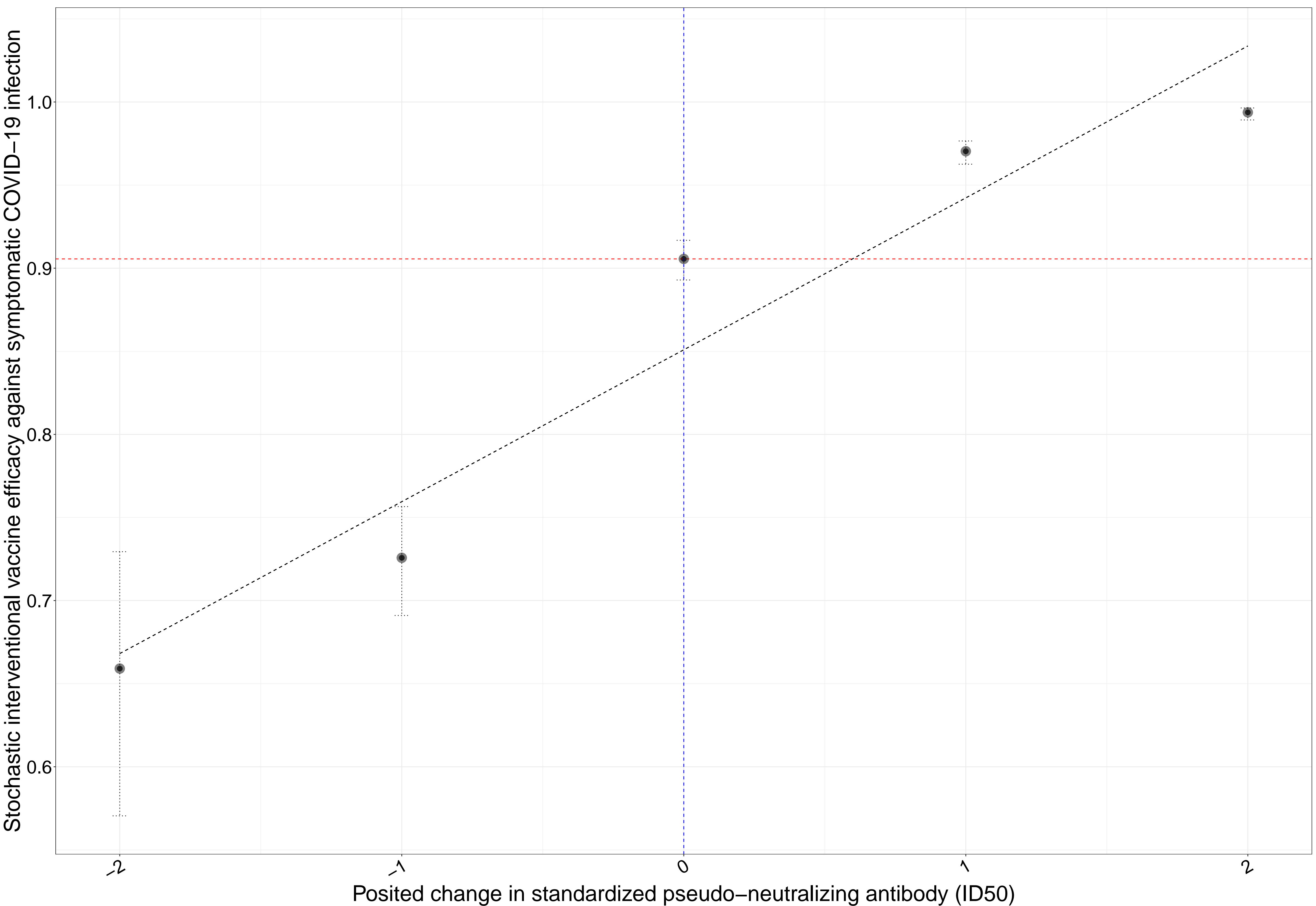


# Estimates of mean vaccine efficacy against symptomatic COVID–19 infection

working MSM summary: ( $\hat{\beta}_{\text{TMLE}} = 0.0914$ , p–value = 0.1802)



Stochastic counterfactual vaccine efficacy v. COVID–19 infection across standardized shifts in pseudo-neutralizing antibody (ID50) levels, with projection of dose–response curve onto a linear working model for summarization.