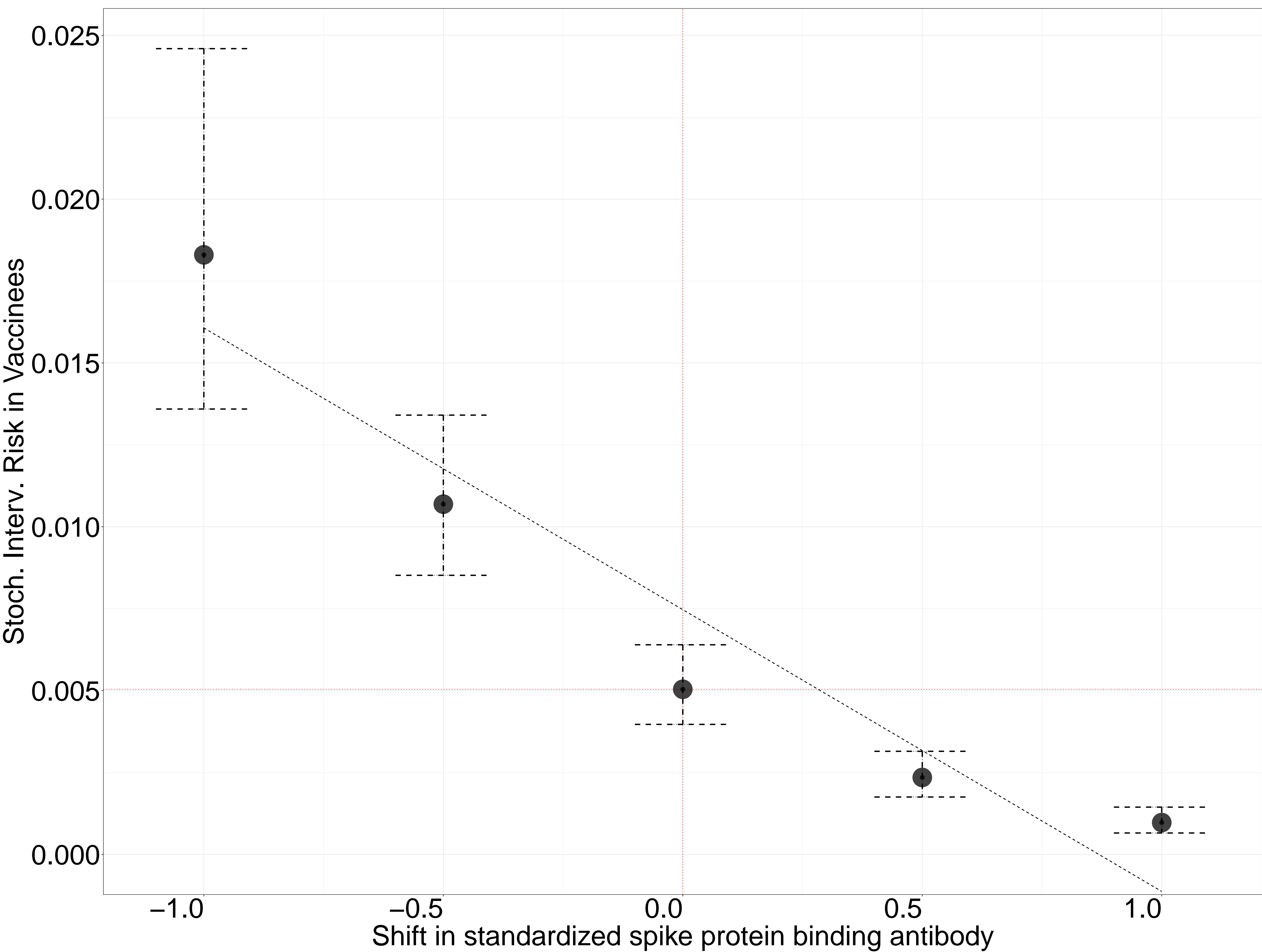


# Stoch. Interv. Risk of Symptomatic COVID–19 at Day 57

working MSM summary: ( $\hat{\beta}_{\text{TMLE}} = -0.0086$ , p-value = 0)



Mean counterfactual COVID–19 infection risk across standardized shifts in spike protein binding antibody levels, summarized by projection of causal dose–response curve onto a linear working model.