

COVID correlates analysis report Nonlinear CoR

2021-02-08

1 Nonlinear association

To explore nonlinear association and threshold modeling, we fit smoothing spline models using the `mgcv` R package and two-phase models using the `chnppt` R package.

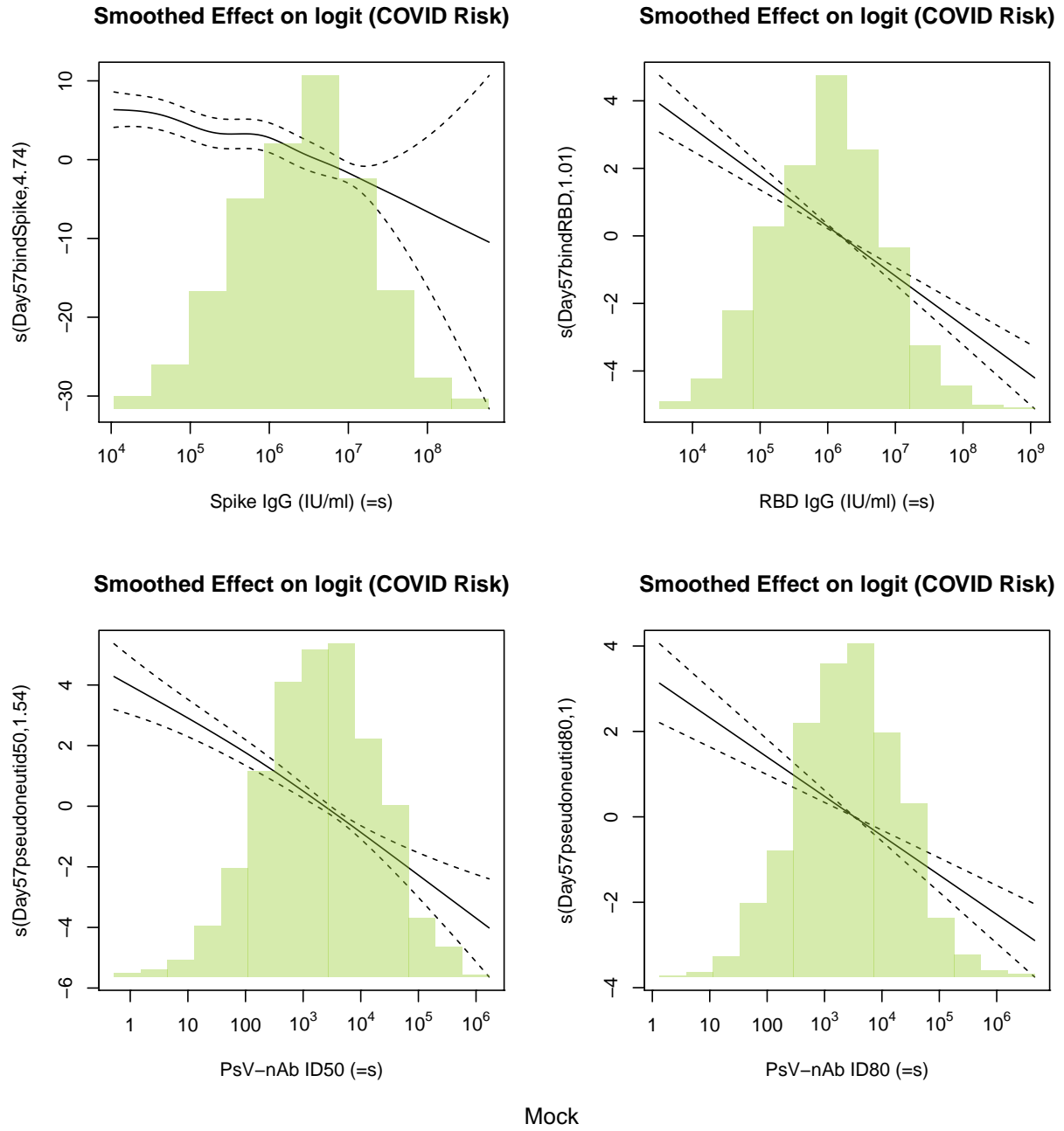


Figure 1: GAM fit of risk of infection versus markers with clinical covariates adjustment. Histograms of the immunological markers in the vaccine arm are overlaid.

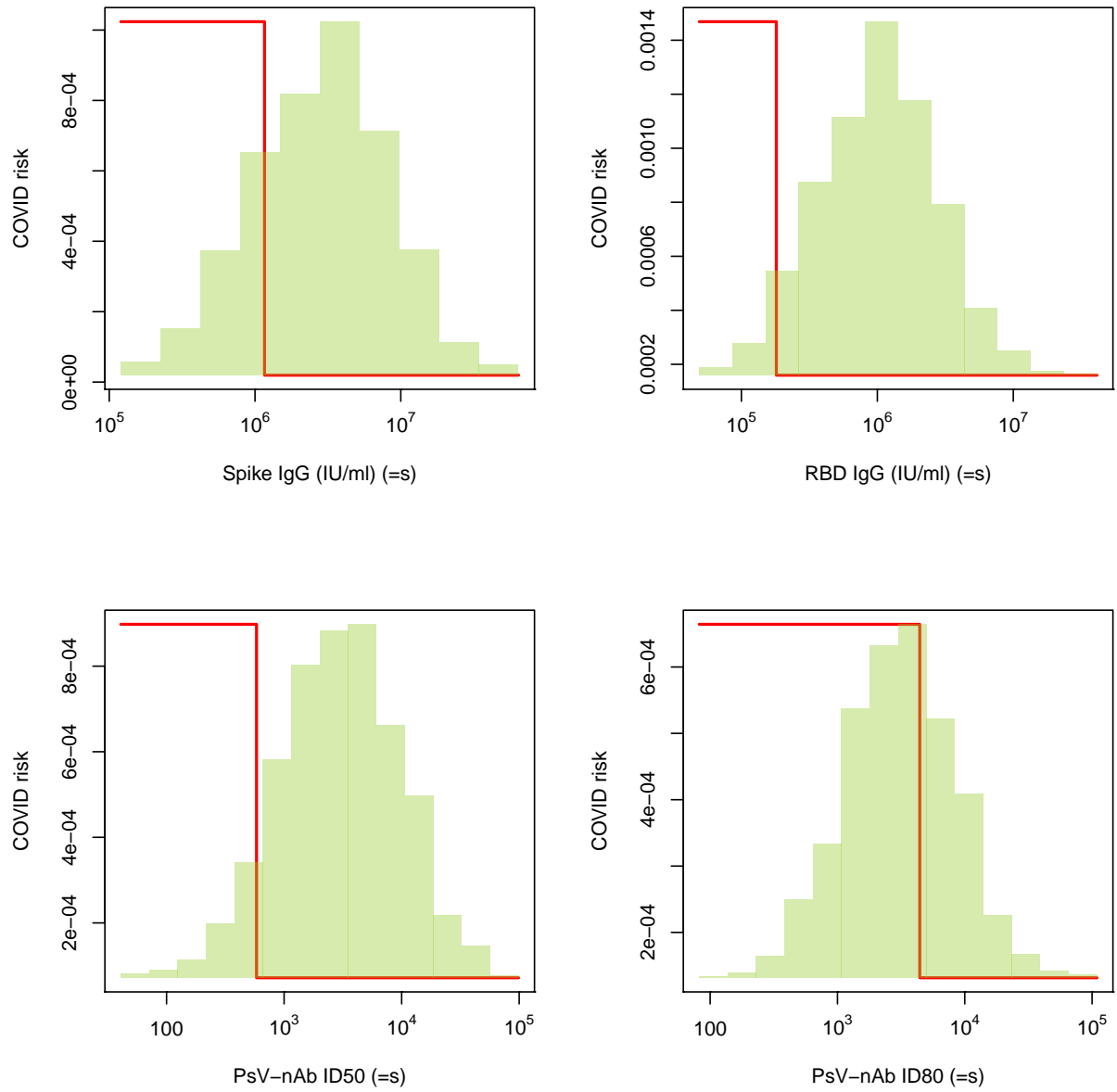


Figure 2: Step model fits with clinical covariates adjustment. Histograms of the immunological markers in the vaccine arm are overlaid.