

Supplement

Quinn White

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Specification of the Priors

```
include_graphics(here("figures/emp-estimate-beta-dist-by-state.pdf"))
```

Sensitivity Analyses

Empirical Estimates of β from the COVID-19 Trends and Impact Survey 2.7% Percentile, 97.5% Percentile, and Mean By State

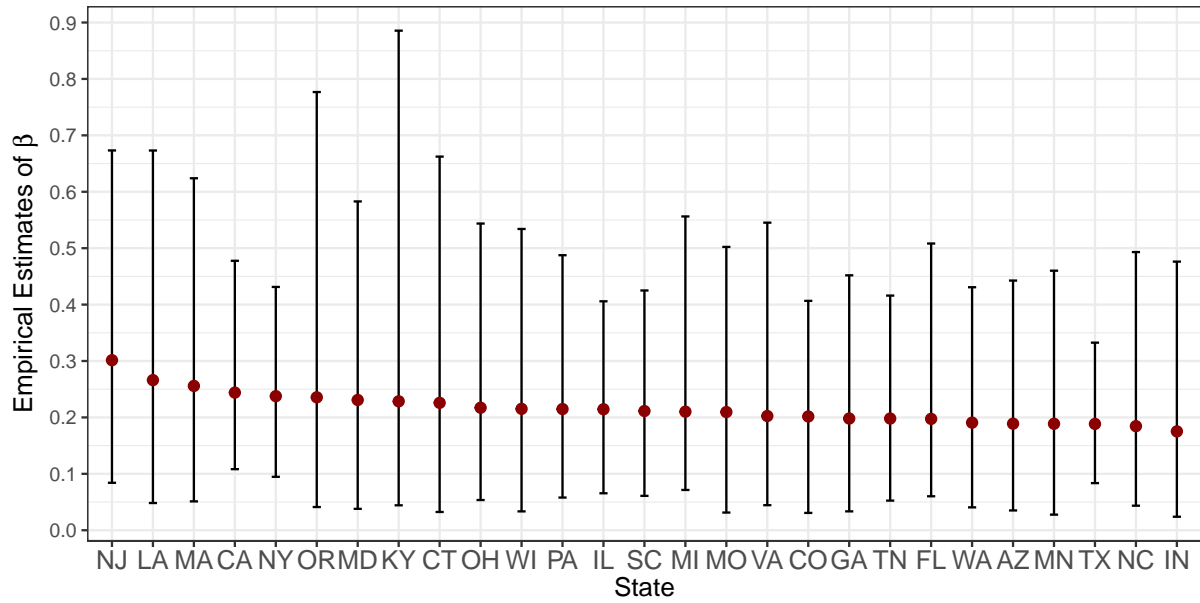


Figure 1: Since β represents the ratio of $\Pr(\text{test}_+|\text{untested}, S_0)$ to $\Pr(\text{test}_+|\text{tested})$, we estimate β from the COVID-19 Trends and Impact Survey as the ratio of the screening test positivity over the overall test positivity. Here, we consider the 2.5% and 97.5% percentiles and mean for each state. Most have a mean near 20.