

# Supplement

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## Specification of the Priors

## Details on Each Implementation

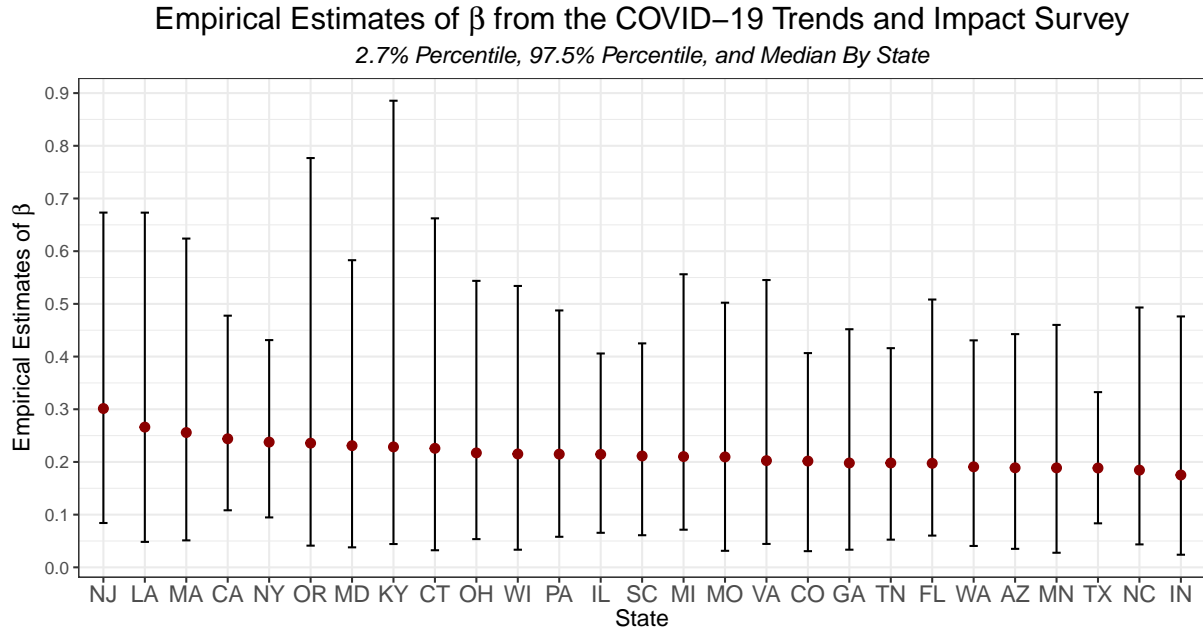


Figure 1: Since  $\beta$  represents the ratio of  $\Pr(\text{test}_+|\text{untested}, S_0)$  to  $\Pr(\text{test}_+|\text{tested})$ , we estimate  $\beta$  from the COVID-19 Trends and Impact Survey as the ratio of the screening test positivity over the overall test positivity. Here, we consider the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

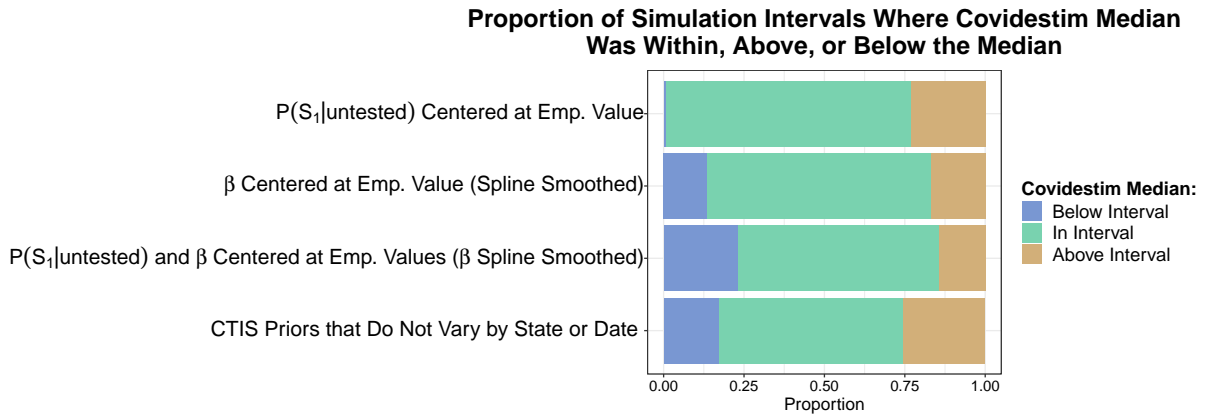


Figure 2: For each implementation, the proportions of simulation intervals where the Covidestim median was below, within, or above the interval are shown, across all states used for the implementation.

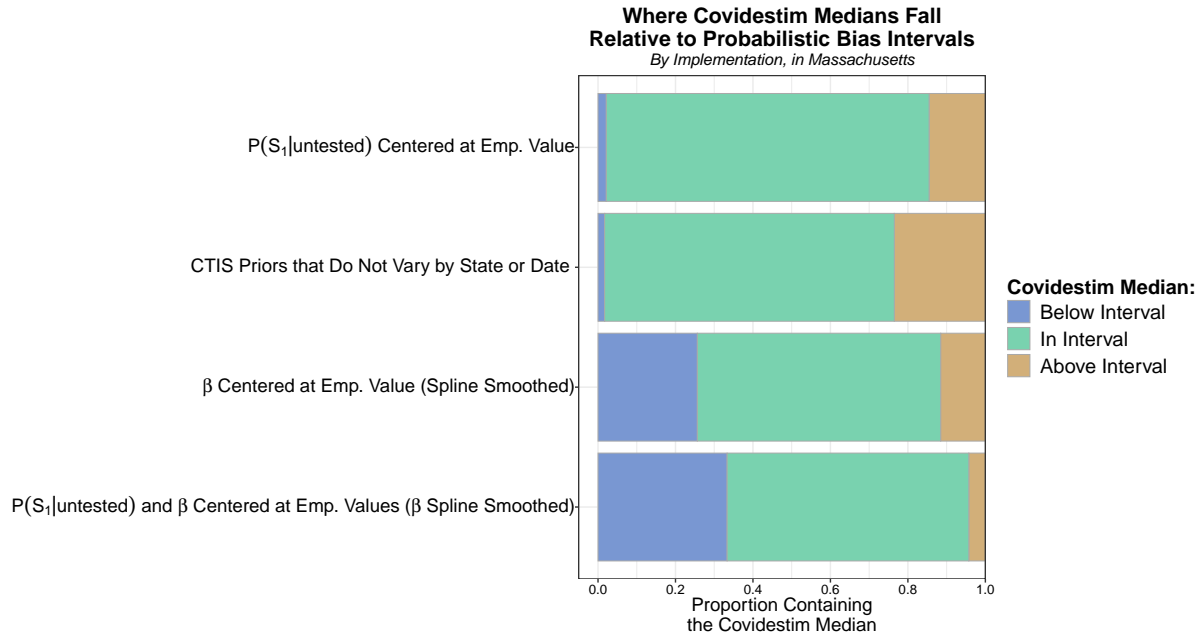
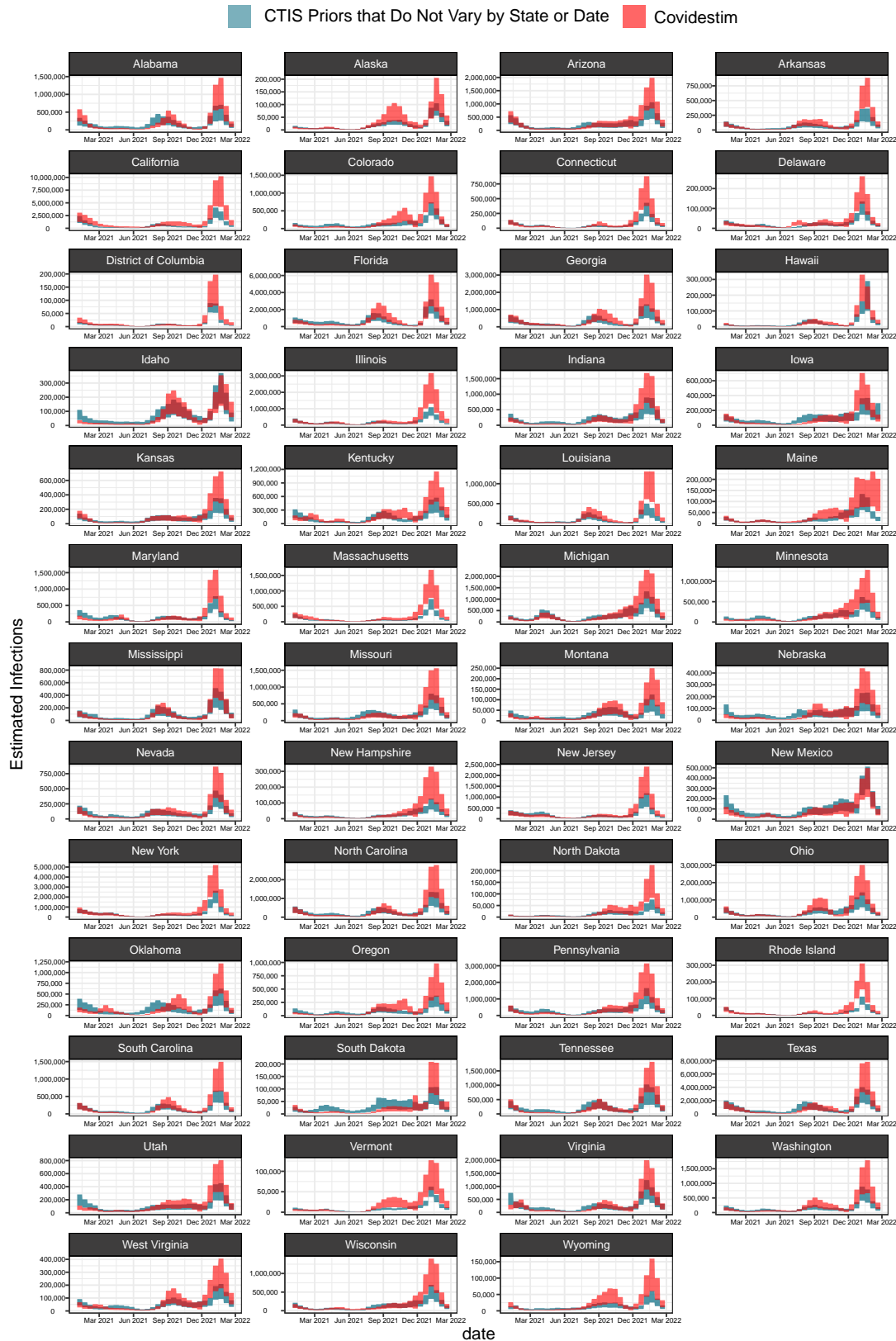


Figure 3: The proportions of simulation intervals where the Covidestim median was below, within, or above the intervals are shown, considering all counties except Dukes/Nantucket, where Covidestim estimates were not produced.

# Full Set of Simulation Intervals by State

## Estimated Infections by State



COVID-19 Trends and Impact Survey

County Results by Implementation