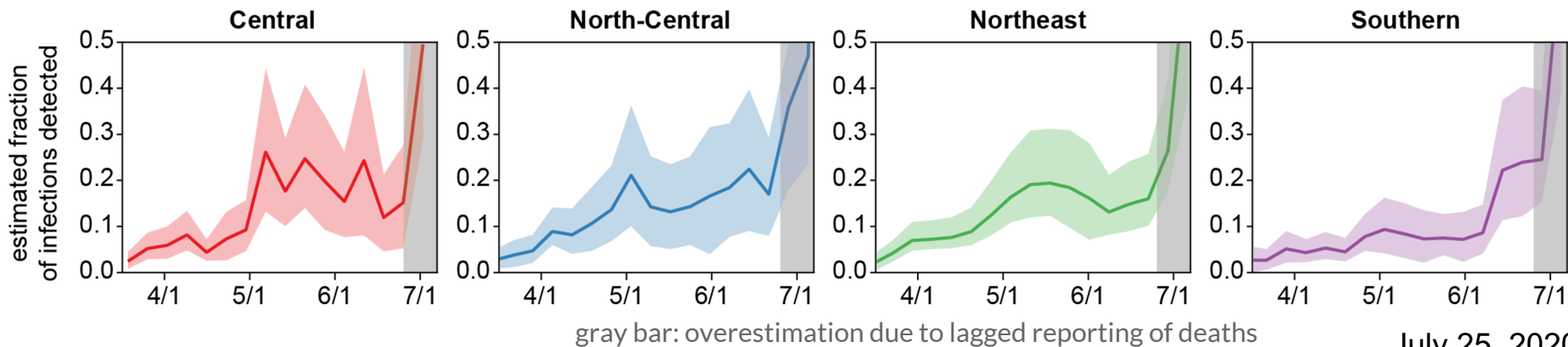
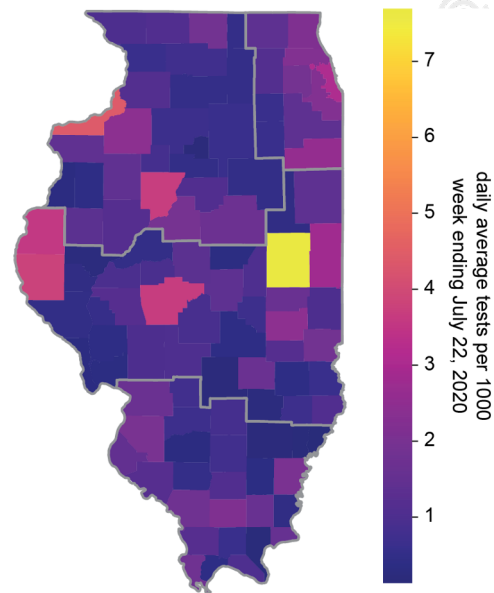


- Sustained increases in hospitalization in the Central, Southern, and North-Central regions are troubling. We predict that $R(t)$ currently exceeds 1 in these regions and that, if action is not taken, ICUs will reach capacity in the Central region by September 15.
- Near real-time estimates of $R(t)$ supplied by sentinel surveillance (i.e., trends in newly symptomatic outpatient cases) provide the best basis for nimble policy. When $R(t)$ is well below 1, it is safe to relax mitigation. When it exceeds 1, more interventions are needed. Other measures are lagged or less reliable.

Northwestern University

- Hospital census in North-Central, Central, and Southern Regions all continuing to show increase, indicating $R_t > 1$
- While testing has increased, we're still grossly underdetecting the true burden of infection, especially in the south (bottom)
- Intensity of testing is very heterogeneous. Champaign County is probably throwing off test positivity rate estimates in Covid Region 6 (right), underscoring why TPR is not a good indicator



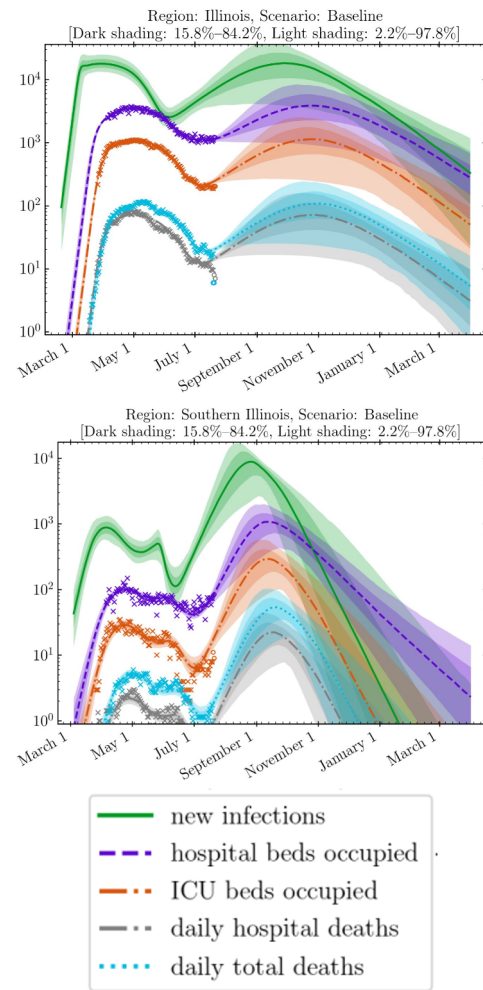
July 25, 2020

- The median of the simulation generated R_t for the Chicago region is now > 1 , indicating that there is the potential for an increase in infections based on the simulation trajectories most closely tracking the hospitalization and death trends observed.
 - We continue to note the need for increased messaging on the importance of protective behaviors, especially given this trend.
- In addition to targeting geographic regions of increased infection activity, it may be helpful to consider region-specific messaging in order to account for the heterogeneity of the reasons behind the lack of adherence to protective behaviors across the state.

ILLINOIS

R > 1 across the State and hospital data show an increasing trend with a predicted second wave

- Hospitalizations and ICU are trending up sharply in Southern, Central, North-Central regions.
 - North-eastern and Chicago are flattening but not yet actually rising.
- Overall State is showing a flattening trend that is predicted to lead to a second wave peaking in Oct/Nov 2020
- Southern region is predicted to show a second wave that is higher than the very low first wave experienced in May 2020



July 25, 2020