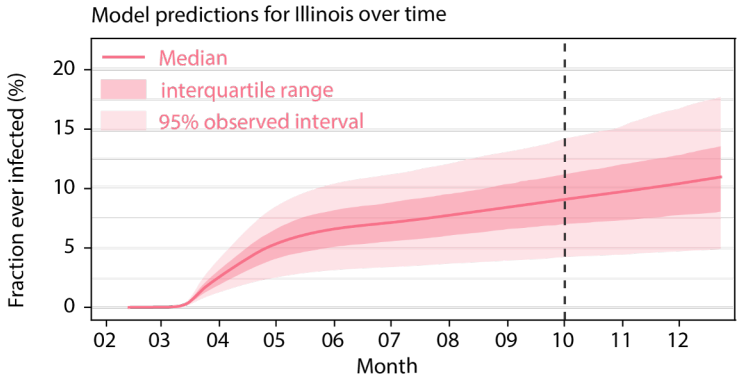
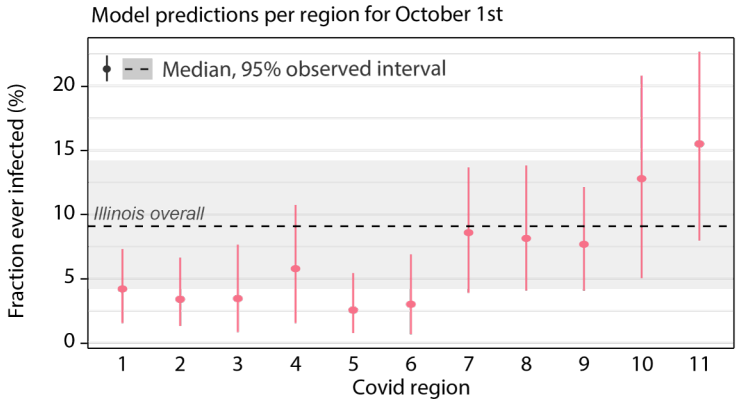
Northwestern University

- Transmission is still increasing in Regions 1 and 2.
- Our model predicts that **in Illinois, about ~9% (4-14%) of the population has had a SARS-CoV-2 infection**, and ~0.23% (0.06-0.5%) are currently infected.
- The fraction of people who have ever been infected ranges from ~2.5% (0.5%-5.5%) in Region 5 to ~15.5% (8%-25%) in Region 11.
- While transmission is being controlled in most areas, **herd immunity is far from being reached** and mitigation efforts such as social distancing, masking, and testing remain crucial.





Oct 2, 2020

HOW DO HOSPITALIZATIONS VARY WITH OUT OF HOUSEHOLD ACTIVITY LEVELS AND SCHOOL REOPENING ACTIVITIES

- We ran scenarios to understand the interactions between school reopening levels (Rows 1-3) and out-of-household activity levels (Columns A-D) beginning October 1
- What we observe is that, regardless of school reopening levels, the increase in transmission that occurs in the 75% and 80% activity levels scenarios result in a flattening or increasing hospitalization trajectory as we approach the end of the year.
- Due to the sensitivity of the outcomes on unknown future activity level trends, vigilance over the effects of the new easing of restrictions is needed

Out of Household (OOH) Activity Levels After Oct. 1

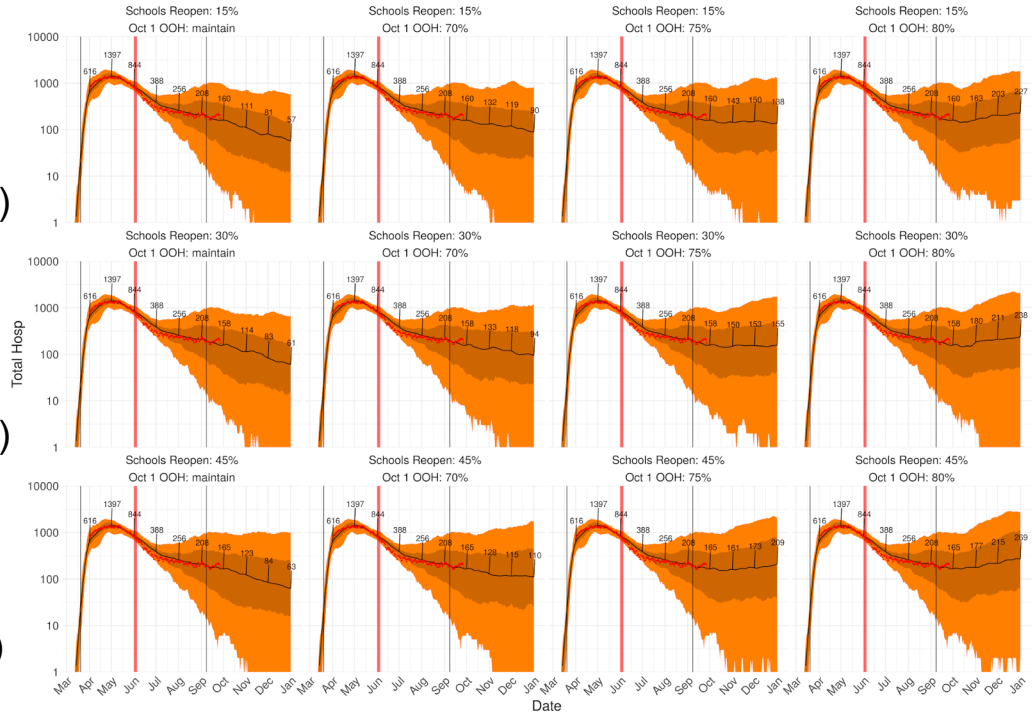
School Reopening Levels

A (maintain 65%) B (70%) C (75%) D (80%)

1 (15%)

2 (30%)

3 (45%)



Oct 2, 2020

ILLINOIS

All regions below hospital capacity for now. UIUC SHIELD working.

- Currently, no risk of exceeding hospital/ICU capacity in the next 4 weeks
- UIUC SHIELD program continues with 0.32% 7-day positivity, ~10K tests/day
- Outcomes optimized by speed enhancements, identifying and testing more the risky locations

Testing is not enough - it is the isolation combined with other mitigation steps that breaks the transmission of SAR-CoV-2. Efforts to expand SHIELD to other locations in Illinois must not stop at testing.

Oct 2, 2020