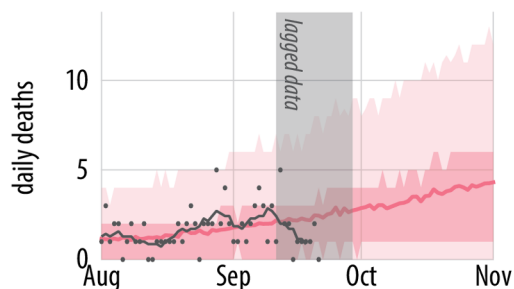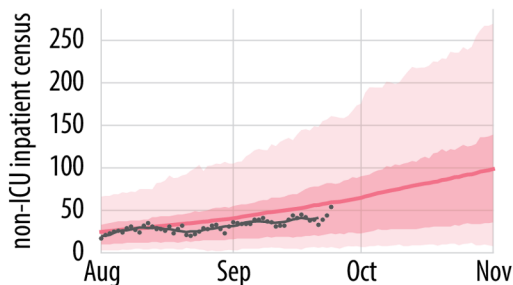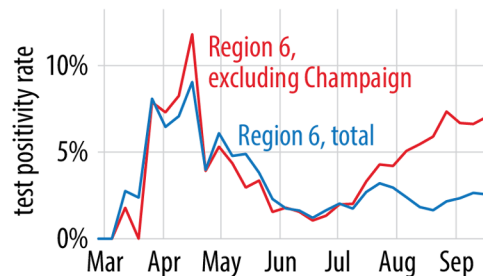# Northwestern University

Spotlight on Region 6

- Testing volume from UIUC masks **increasing trends in test positivity rate and hospital census in the rest of Region 6**: the epidemic is growing.

- In Region 6, R_{eff} remains greater than 1.

- The model predicts increasing probability of ICU overflow if current trends continue.

- **Sentinel surveillance** would give us **reliable information** on epidemic trends in Region 6 without the bias introduced by mass testing in one specific area, or the long lags associated with hospital census and deaths.

ICU and non ICU COVID inpatient census from EMResource
Deaths, tests, and positive tests from INEDSS
Pink = model prediction

Sep 25, 2020

HOSPITALIZATIONS

- We did additional analyses to understand the interactions between school reopening levels and behavior relaxation in the 18-40 and 40-60 age groups from mid-September to the end of the year.

- Note, we assume here that schools are able to maintain good protective behaviors whatever the activity level of the students.

- Moving down the leftmost column of the figure, the results show that as the 18-40 age group relaxes their protective behaviors, the percent increase between the 15% to 45% school activity level scenarios increases (25% to 62%).

- This school activity level and behavioral relaxation interaction is less pronounced across the rest of the scenarios, both due to the lower effect of the 40-60 age group on their own, and the fact that when both groups relax their behaviors, the hospitalizations across all school level scenarios increase substantially.
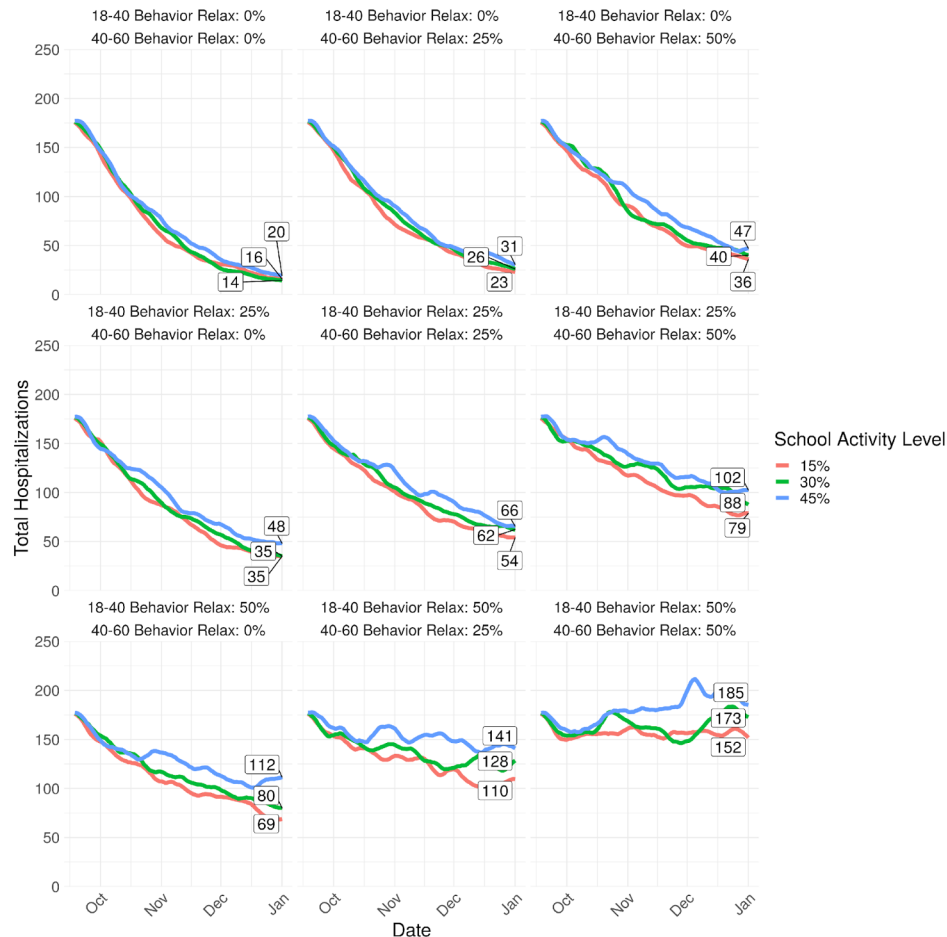
No change since last week & below hospital capacity for now

- Currently, no risk of exceeding hospital/ICU capacity in the next 4 weeks

- UIUC SHIELD program continues with low positivity, ~10K tests/day

- Analysis of location of outbreaks reveals a "20-80 rule":
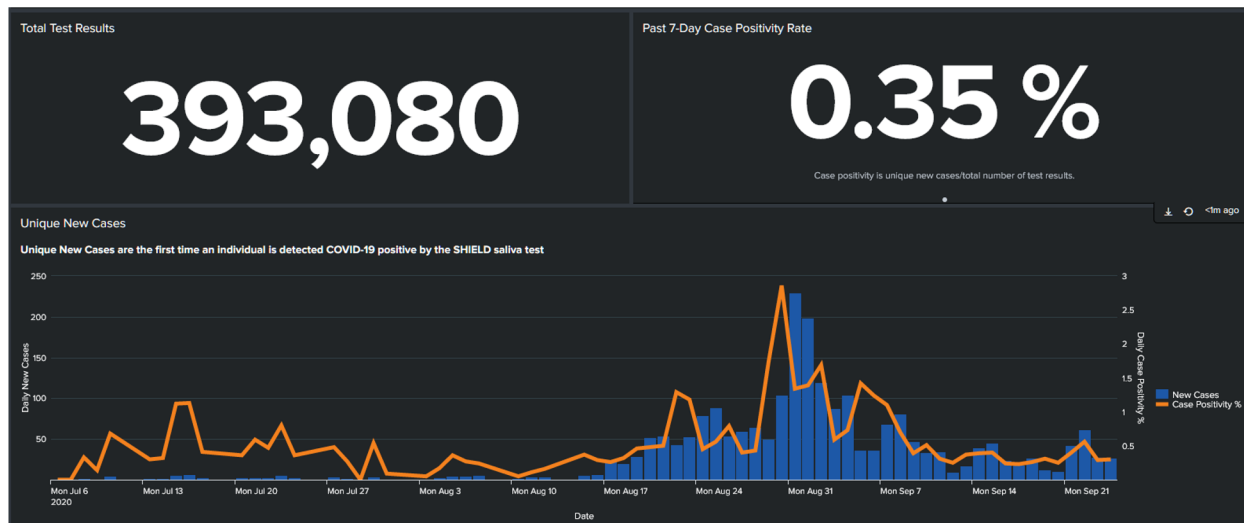
20% of residence locations create 80% of the cases. Outbreaks associated with non-compliant parties, bars etc, but also potentially communal living facilities

Sep 25, 2020