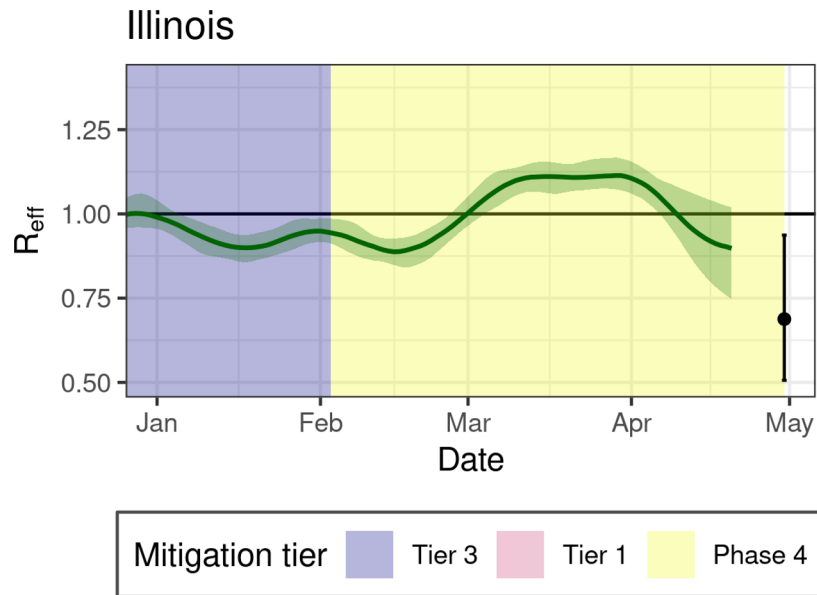


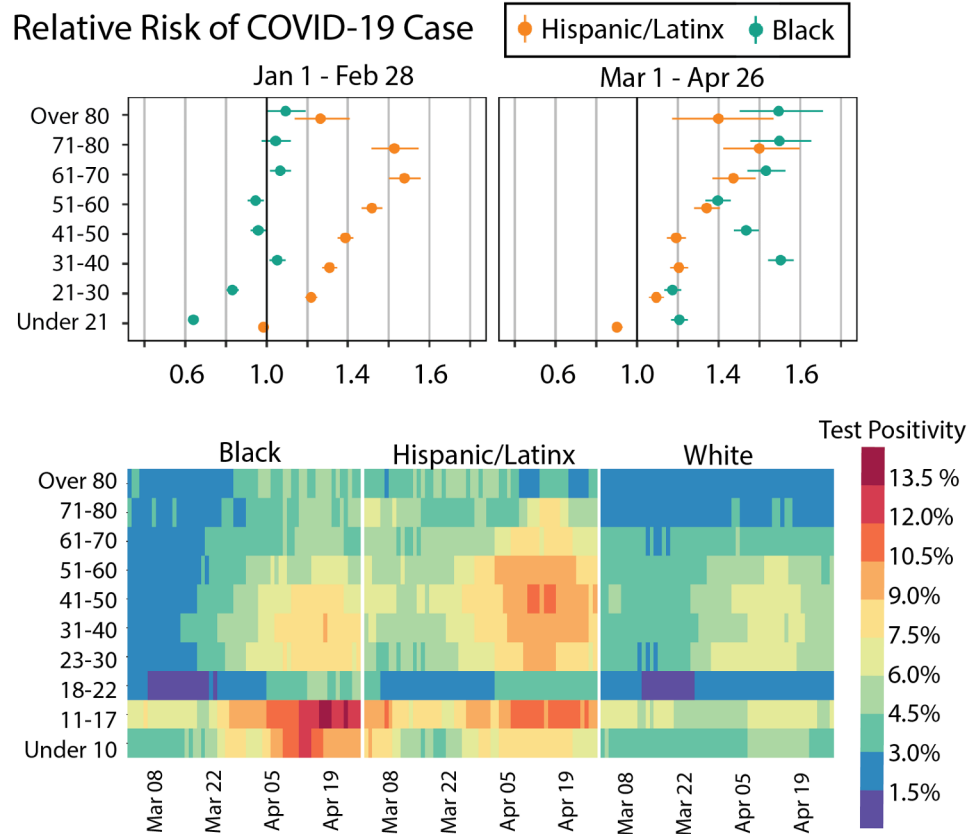
- R_{eff} fell between March 26 and April 20, indicating a slowdown in epidemic growth.
- Vaccination explains 30–72% of the reduction in R_{eff} since its most recent peak, showing that behavioral changes, seasonal variation, and other factors play significant roles in reducing transmission. This estimate accounts for uncertainty in vaccine effectiveness, the infection fatality ratio, the allocation of vaccines to susceptible individuals, and the increased transmissibility of B.1.1.7.
- We estimate that 47–64% of the population is immune through either infection or vaccination.
- More transmissible variants are likely to continue spreading which could change R_{eff} , the fraction immune, and herd immunity thresholds.



Green line shows R_{eff} estimated from CLI. Point with errorbars shows most recent R_{eff} estimate from full transmission model fitted to census hospitalizations and deaths.

Northwestern University

- Compared to Jan-Feb, **disparities** in per capita case rates have **persisted for Hispanic/Latinx** people and **worsened for Black** people since March 1.
- Testing increased for Black people age 23-60** in April, rising to the rates seen for White people 23-30 and Over 80.
 - More testing was followed by **increased TPR**, suggesting **under-testing relative to exposure** in this demographic.
- Despite high case burdens, **Hispanic/Latinx** people are still **tested at the lowest rates**.
 - In April, **TPR** rose **above 9%** for Hispanic/Latinx adults ages 23-70.
- Pediatric testing reached a new peak, but **Black and Hispanic/Latinx children** are **tested at roughly half the rate** of White children.
 - Access to **pediatric testing remains variable** - almost 30% of 14-17 year olds tested since March 1 were from Region 9.



April 30, 2021