

# Decarceration: Impact on SARS-CoV-2 Transmission in Correctional Facilities and Community Needs after Release

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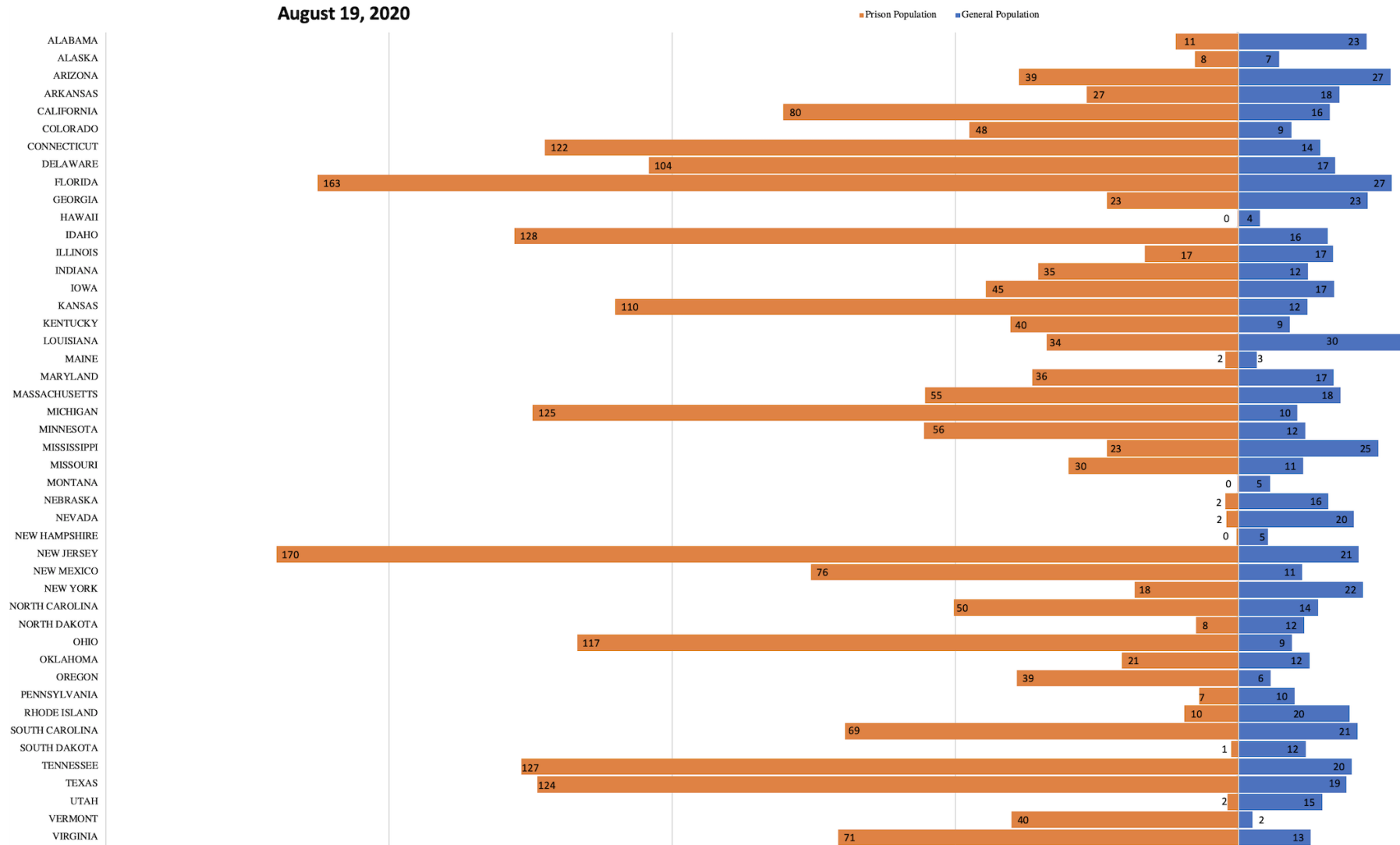


# COVID-19 CAN SPREAD QUICKLY IN CORRECTIONAL AND DETENTION FACILITIES

**Strategies to stop the spread include:**

- 1 Regular symptom screenings
- 2 Isolating people with symptoms
- 3 Physical distancing
- 4 Intensified cleaning
- 5 Infection control training
- 6 Disinfection of high-touch surfaces
- 7 Cloth face coverings

# Measuring COVID-19 Infection Rate in Prisons



# Decarceration

## Historical Examples

- 1832- Cholera outbreak, Yorkshire, England
- 1999- Large outbreak of TB in Russia

## International Efforts

March 2020

- UN calls on countries to reduce prison populations
- Iran temporarily releases 85,000
- Columbia plans to release 10,000

# Decarceration in the US

Over 5000 different facilities

## Jails

- Little control over who and how many are detained
- Depend on prisons to accept transfers of people who are sentenced
- High throughput, but some longer stays with courts closed

## Prisons

- Generally larger with older population and more chronic medical illness
- Includes people serving long sentences and have been away from community for longer periods
- DOC itself cannot decide to release people

# The Empirical Basis

Prison crowding is associated with MTB, pneumococcal infection and skin and soft tissue infections<sup>1</sup>

High rates of asymptomatic and presymptomatic SARS-CoV-2 infection shown even in early studies<sup>2,3</sup>

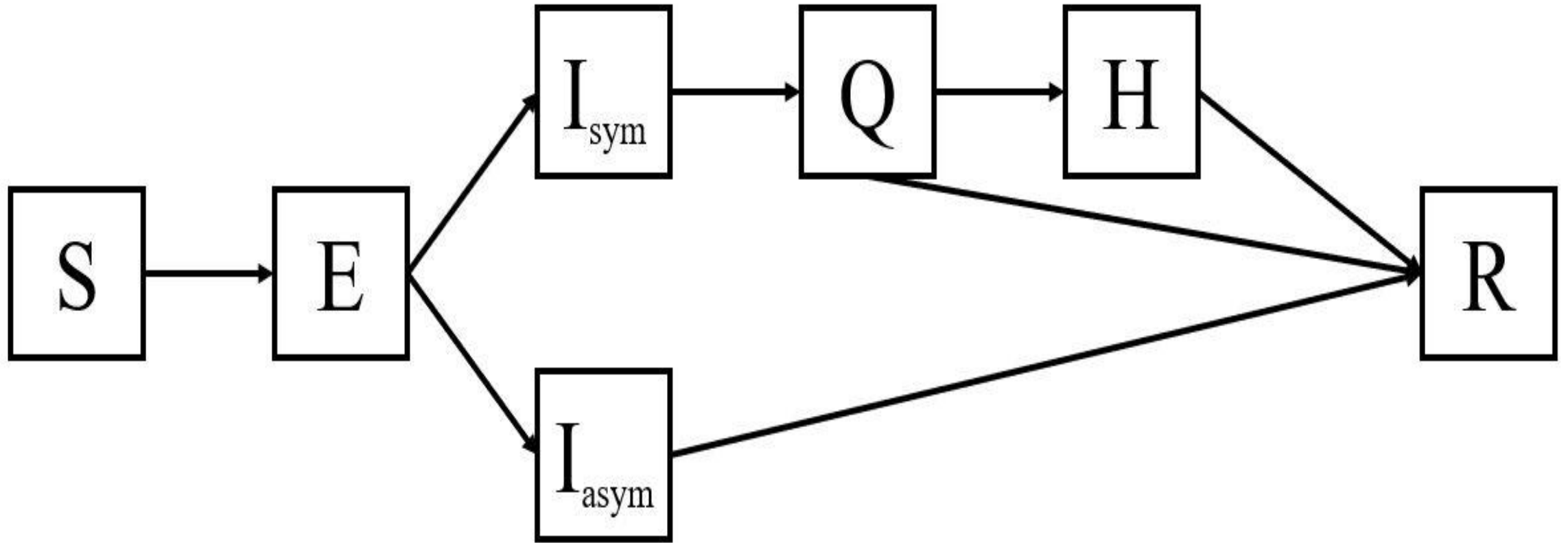
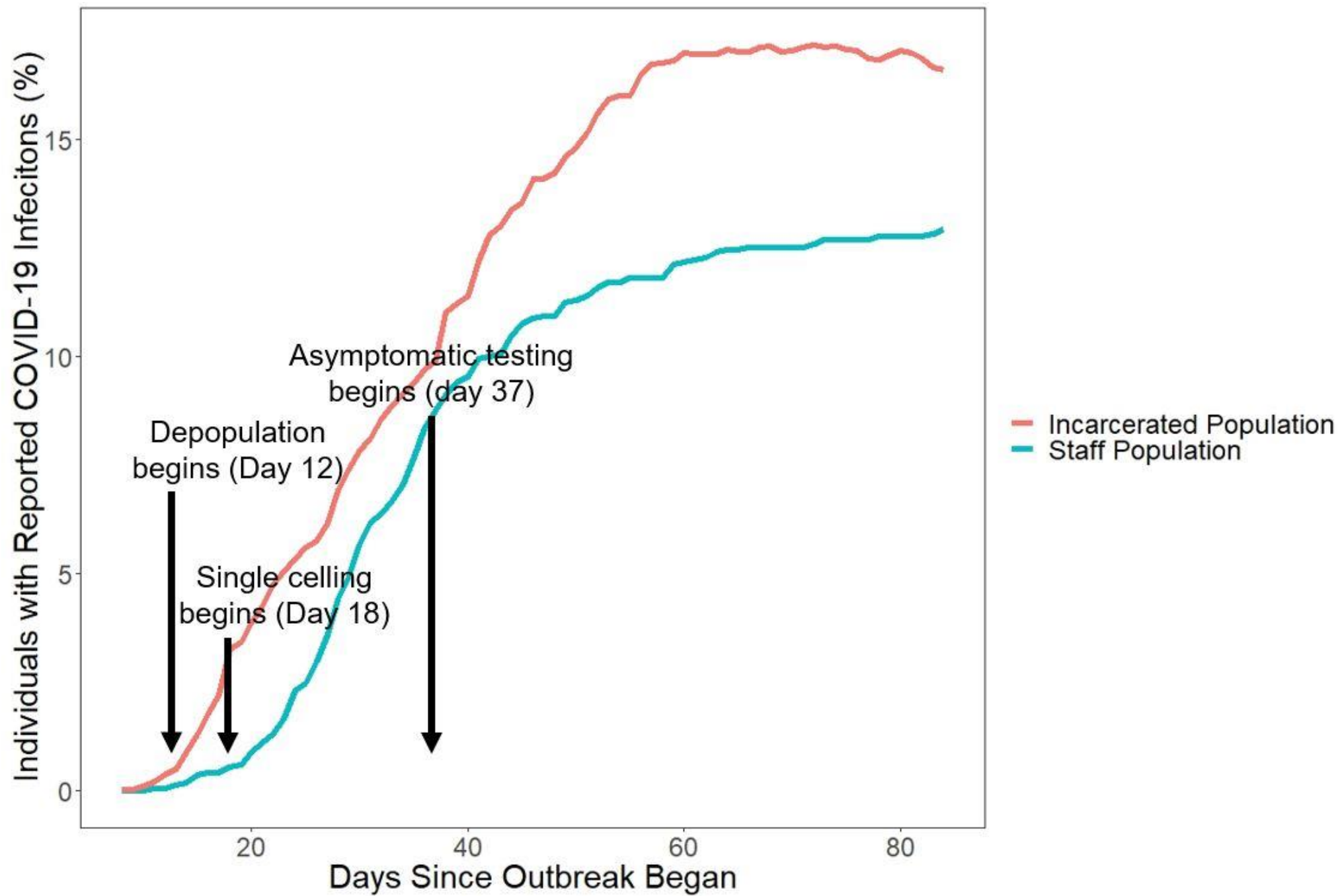


Figure 1. Structure of the disease transmission model. These disease states included susceptible ( $S$ ), exposed ( $E$ ), infected symptomatic ( $I_{sym}$ ), infected asymptomatic ( $I_{asym}$ ), quarantined ( $Q$ ), hospitalized ( $H$ ), and recovered ( $R$ ) individuals.





	Time Range in Days	$\beta$ (95% CrI)	$R_0$ (95% CrI)	Marginal Reduction in $\beta$ and $R_0$	Expected Total Symptomatic Cases, Day 83* (95% CrI)	Expected Total Hospitalizations, Day 83* (95% CrI)	Expected Total Deaths, Day 83* (95% CrI)	Expected Total Cases, Day 200* (95% CrI)
<b>1: Initial outbreak</b>	1 – 11	1.89 (1.44 - 2.44)	8.25 (5.01 - 12.90)		3,867 (2,742 - 5,044)	541 (384 - 706)	38 (29 - 47)	6,372 (6,318 - 6,437)
<b>2: Depopulation</b>	12 – 17	0.83 (0.66 - 1.06)	3.58 (2.46 - 5.08)	56%	2,520 (1,940 - 3,088)	353 (272 - 432)	24 (20 - 28)	4,055 (3,666 - 4,294)
<b>3: Increased single celling</b>	18 – 36	0.41 (0.30 - 0.56)	1.72 (1.41 - 2.12)	51%	1,447 (1,224 - 1,654)	203 (171 - 232)	12 (11 - 13)	2,950 (2,331 - 3,521)
<b>4: Asymptomatic Testing</b>	37 – 83	0.11 (0.06 - 0.20)	0.45 (0.32 - 0.59)	73%	642 (592 - 692)	90 (83 - 97)	3.9 (3.6 - 4.1)	1,121 (904 - 1,433)

**Intervention Effects: Estimated Transmission Rates ( $\beta$ ), Effective Reproduction Ratios ( $R_0$ ), and Disease Cases for each Outbreak Phase**

\* Assuming the value of  $\beta$  estimated for this intervention phase occurs during all subsequent days.

**TRANSITIONS**



# **TRANSITIONS CLINIC NETWORK CONNECTICUT COVID-19 RESPONSE LINE**

Transitions Clinic is here to answer your questions and help coordinate medical care to people being released from jail/prison & in halfway houses!

# Shifting to the Community

- Typical necessities more necessary than ever- i.e. telephone for telemedicine and reaching emergency medical help
- The health system- flexible access, when all goes to telemedicine, need to be able to see people in person who don't have phones
- Housing, housing, housing- alternative options when shelters are shut down, access to places that allow for social distancing
- Helping families plan requires broader testing offered prior to release
- Robust and flexible addiction services as well



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**KEY CHALLENGES:**

- Little funding to offer the necessary discharge planning and testing
- Community health system can be unprepared to offer needed services

**KEY OPPORTUNITIES:**

- Consensus around the health risks of incarceration
- More intentional relationships b/w health departments and correctional facilities
- Staff considered part of the ecosystem
- Centering the voice of incarcerated people and family
- Studying equity impact of policy decisions

# Issues to Consider for Future Work

- Little data on who has been released limits our ability to study equity impact of different policies
- No uniform reporting requirements- i.e. best practices in public health reporting
- Little data on comorbidities and how COVID risk may differ in this population
- Shared decision making around testing- what is the patient perspective?  
What are the ethical considerations that are front and center?