

#### Essential functions in the acute phase of a pandemic

# Surveillance and detection

- Laboratory capacity
- Outbreak investigation
- Monitoring of the epidemic
- Risk and severity assessment

#### Clinical management

- Patient management
- Health service continuity
- Infection prevention and control in healthcare settings

# Prevention of the spread in the community

- Medical countermeasures such as vaccination and prophylaxis
- Non-medical countermeasures to contain and mitigate the infection

# Maintaining essential services

- Essential services continuity
- Recovery





### **Surveillance and Detection**

- Laboratory Capacity
  - More testing than any other country but....
- Outbreak investigation
- Monitoring the epidemic
- Risk and severity assessment

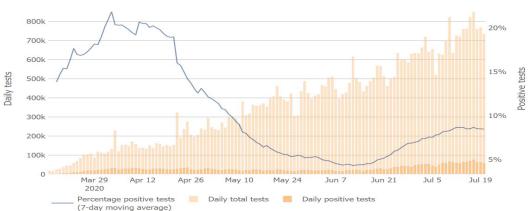
### Surveillance and detection

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# **Testing**

Percentage positive test (average of the last 7 day



6-10 days to get a result

recommended positivity

15%

5%

5%

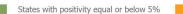
33 States have

higher than

https://coronavirus.jhu.edu/testing/individual-states

https://coronavirus.jhu.edu/testing/testing-positivity







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#### **CONTACT TRACING**

- New York 100%
- Connecticut 100%
- New Jersey 60%
- California 23%
- Texas 6%
- S. Carolina 5%
- Arizona 3%
- Florida 3%







# **Clinical Management**

- Patient management
  - Respiratory, Immune response, Coagulation
  - ICU care
- Health service continuity
  - ICU capacity
- Infection prevention and control in healthcare settings
  - Initial PPE shortages
  - 800+ healthcare and frontline workers have died
  - High-risk populations



- Patient management
- Health service continuity
- Infection prevention and control in healthcare settings





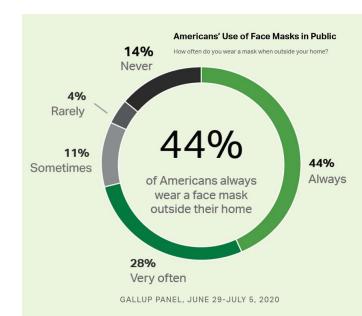


# **Prevention & Spread in the Community**

- Vaccination and prophylaxis
- Non-medical countermeasures
  - Lack of central strategy
  - Political versus science driven response
  - Mask use
  - Social media driven misinformation

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# **Maintaining Essential Services**

- Maintaining essential services
- Essential services continuity
- Recovery

- Essential services
  - Public services
- Recovery
  - Economic stimulus and support
  - CARES act





Country/State	Cases per million	Relative 14- day Change	Percentage COVID+ test Rate
Florida	512	10%	19.00%
Louisiana	465	17%	9.70%
Mississippi	444	72%	20.70%
Alabama	376	34%	19.20%
Arizona	369	-23%	21.90%
South Carolina	344	5%	16.20%
Georgia	341	18%	14.40%
Nevada	340	39%	15.30%
Montenegro	335	210%	ND
Tennessee	302	37%	9.10%
Texas	286	-8%	12.50%
Idaho	281	12%	16.80%
Brazil	262	32%	83.50%
Arkansas	260	6%	11.30%
California	253	28%	8.00%







### **Risk Balance**

### Risks of keeping closed

- Lost education
- Social and Emotional Skill Development
- Safety
- Nutrition
- Physical activity
- Caregiving and ability to work

### **Risks of Opening**

- ^COVID+ in children, teachers, parents, and community
- High risk children, teachers and parents
- Children >10 as spreaders
- Multisystem inflammatory syndrome (MIS-C) after exposure to SARS-CoV-2





# **Guiding Principles**

- The more people a student or staff member interacts with, and the longer that interaction, the higher the risk of COVID-19 spread.
- The risk of COVID-19 spread increases in school settings as follows:
  - Lowest Risk: Students and teachers engage in virtual-only classes, activities, and events.
  - More Risk: Small, in-person classes, activities, and events. Groups of students stay together and with the same teacher throughout/across school days and groups do not mix. Students remain at least 6 feet apart and do not share objects (e.g. hybrid virtual and in-person class structures, or staggered/rotated scheduling to accommodate smaller class sizes).
  - Highest Risk: Full sized, in-person classes, activities, and events. Students are not spaced apart, share classroom materials or supplies, and mix between classes and activities.



## Factors to be considered

- Community COVID activity and capability:
  - Testing and contact tracing
  - Cases involving teachers and children
- Parent and teacher sentiment
- Ability to put in place mitigation measures
- How to manage high-risk individuals and individual situations



