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COVID-19 RESPONSE

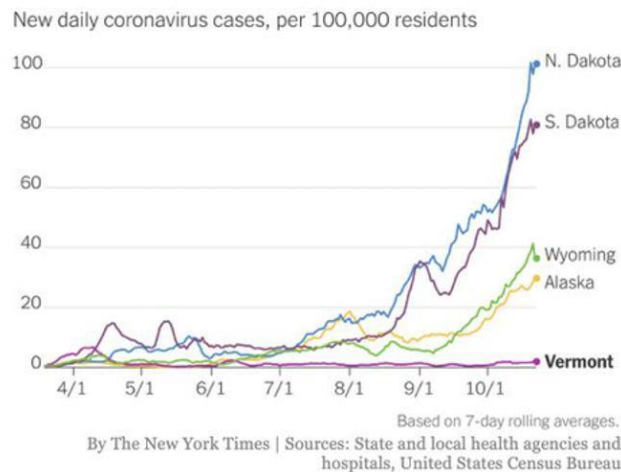
Nov 23 2020

CALL TO ACTION

1. All Governors and Mayors should institute a mask mandate until conditions substantially improve
2. National Operation Warp Speed for testing
 - a. We need 10x the volume of testing immediately (we have 4x more test capacity available than we're using already)
3. All jurisdictions should implement a broad FFAST plan as quickly as possible – fast, frequent, asymptomatic testing. FFFASTA even better – fast, frequent, free, asymptomatic testing for all.
4. States should commit to fund #2 with remaining CARES funding; the Federal government should commit to back-stop any remaining cost to #2 that is not recovered via CARES or insurance reimbursement with Federal funding
5. States and the Federal Government should provide any up-front capital cost required to build test capacity through either grants or pre-test-acquisition funding similar to Operation Warp Speed funding for vaccine development and delivery

BACKGROUND

1. [>50% of COVID spread asymptomatic according to revised CDC guidelines](#) Friday 11/22
2. Masks work according to
 - a. Recent [county-level comparison data in Kansas](#)
 - b. [Vermont vs. South Dakota](#) comparison data



The starkest sign of Vermont's success is that it has not recorded a single Covid-19 death in more than two months.



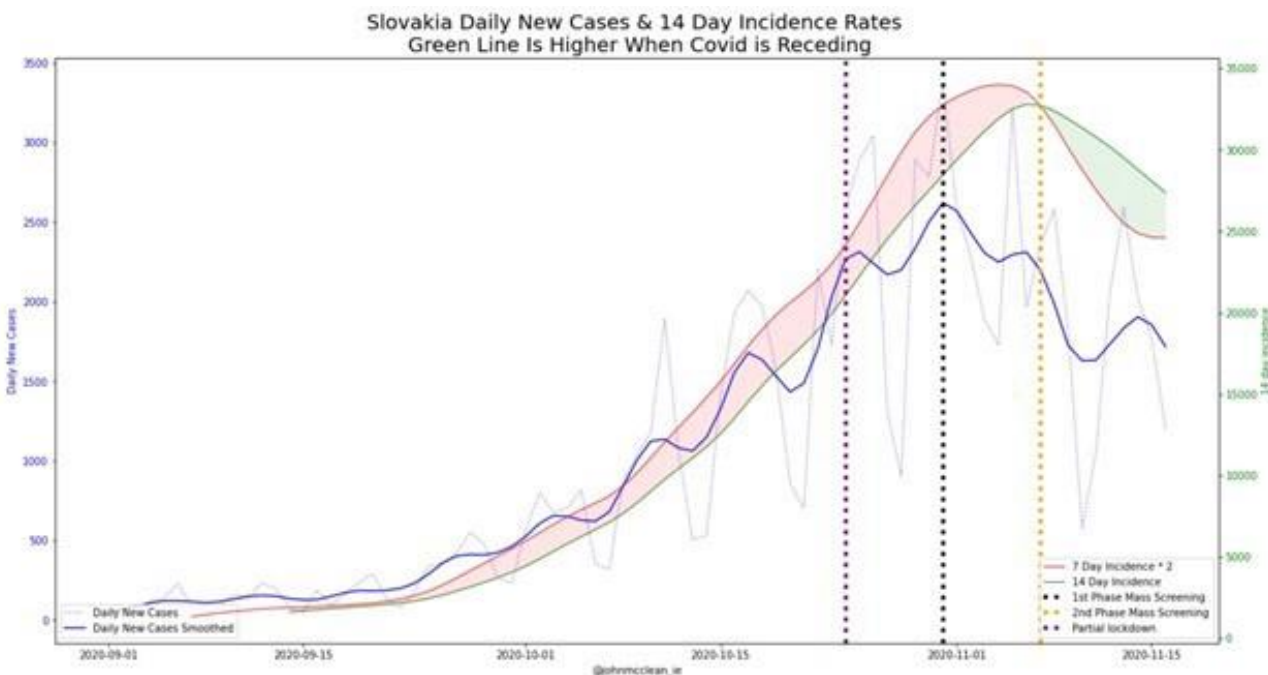
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3. [FFAST works](#) according to
 - a. Dr. Brix citing [colleges and universities](#) which [implemented](#) twice [weekly testing programs](#) vs. [those which did not](#) – the latter had 10x the case incidence of the former

- Key to stopping and preventing future surges is proactive testing – finding the asymptomatic silent spread before the vulnerable become infected
- Colleges that proactively tested – a minimum of weekly and isolated the asymptomatic cases infected less than 1% of the student body and those that are testing as the USA symptomatic focus and contact tracing infected 10% of the student body
- Testing needs to be increased 10X to be able to both test for asymptomatic and symptomatic infections

- b. [Slovakia which just completed a program to test all citizens and rapidly knocked back the exponential case spike](#) .. “In the first week alone the incidence of [#COVID19](#) dropped ~50%!”



- c. [China which has routinely tested en masse](#) whenever there have been small outbreaks and ended them quickly
 - d. More and [more experts](#) , including [Dr. Fauci](#) and [CDC Dr. Redfield](#)
4. There are multiple test-type options for FFAST
 - a. FDA should accelerate review and [EUA approval](#) of more [home-based point-of-care tests](#)



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Dr. Fauci: *“ If you had a national plan for testing, what would it be?*

Surveillance testing. Literally flooding the system with tests. Getting a home test that you could do yourself, that’s highly sensitive and highly specific.”

- b. Antigen tests a la the [HHS 150 million purchase of Abbot BinaxNOW](#) –
 - i. NIH estimates suggest [we’ll have 6 to 7 mill of these/day early January](#) –
 - ii. they are [working to find infectious folks](#)
 - c. Both [back-stopped by sufficient PCR test capability](#) to rapidly verify positive incidents
 - i. [That can be scaled quickly](#) and inexpensively, too
 - d. Newly emerged PCR technologies that can provide scaled capacity quickly
 - i. [Saliva-based](#) ([University of Illinois](#); [Yale](#); [UC Davis](#)/, [JHU](#)) at costs /test now at ca. \$15 per test
 - ii. Sample pooling (though best in lower incidence communities)
5. Analyses support the need for an immediate 10x volume increase in test capacity
- a. Dr. Brix (above)
 - b. Deloitte Sept 2020 -- (before recent surge):

Capital Region Recovery (1/3) – Activate Return to Safe In-Person Activities

Economic recovery from COVID-19 calls for return to in-person activity at schools and offices. To safely reopen, we estimate the Capital Region will require up to 240,000 tests per day

<p><i>Conservative public health guidance suggests that communities cannot safely reopen without a sustained test positivity rate of 3% or less⁶.</i></p> <p><i>Similarly, research suggests that frequent, accessible, and reliable testing at schools and workplaces can enable quick detection and isolation of COVID-19 cases in order to accelerate suppression of the virus⁷.</i></p>	<ul style="list-style-type: none">  Testing has stalled within the region, with many areas of our community seeing positivity rates well above 3%¹  Many organizations, including schools and companies in key industries such as construction and hospitality, require in-person interactions to be effective  To enable a safe return to work and school, we estimate that the region will need up to 240,000 tests per day, over eight times the current daily testing volume in the region^{2,3,4,5}
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Notes: 1) 14 counties / wards within the Capital Region: Prince William, VA; Loudoun, VA; Alexandria, VA; Fairfax, VA; Chesterfield, VA; Henrico, VA; Anne Arundel, MD; Baltimore, MD; Harford, MD; Charles, MD; Queen Anne’s, MD; Arlington, MD; Prince George’s MD; Calvert, MD; 2) Virginia Testing Data; 3) Maryland Testing Data; 4) Washington D.C. Testing and Case Data; 5) John Hopkins Population and Case Data; 6) NYC Public Schools Reopening Threshold; 7) Rockefeller Foundation

- c. [Rockefeller Foundation](#) , [Brown University](#) |
6. Masks and tests at scale will be needed throughout 2021
- a. Youth including [school children](#) and [healthy adults including college age students](#) will not be vaccinated until latter half of ‘21



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