

COVID-19 Update Dr Mark Cunningham-Hill Medical Director NEBGH

Monday July 20th

Vaccines

- 41 COVID-19 vaccine candidates currently in Phase 1-3 trials or major candidates in pre-clinical stages of development and research
- Operation Warp Speed US is investing in 3 candidates:
 - Moderna
 - University of Oxford/AZ
 - J&J Ad26.COV2-S





Warp Speed Candidates



Moderna **mRNA** Phase 2 Phase 3 - 7/27/20 Neutralizing antibodies Booster \uparrow response Mild side-effects 50+% Emerging platform \$483M OWS



Oxford/AZ Chimpanzee adenovirus vector Phase 2/3 Based on AV vector used for MERS vaccine Neutralizing antibodies and T-Cell No human vaccines \$1B BARDA & OWS

1**%**1

Human adenovirus vector Pre-clinical → Phase ½ Neutralizing antibodies and T-Cell Based on AV vector used for Ebola vaccine Investigational vaccines – Ebola, HIV, RSV and Zika \$1B J&J, BARDA & OWS

Timing



- Earliest later this year if phase 3 trials go well and vaccine(s) get FDA Emergency Use Approval Q1 2021 likely
- Who gets the initial doses?
 - Healthcare workers and first responders
 - Teachers
 - High risk individuals
- General public 2nd





Funding and Global Distribution

- Coalition for Epidemic Preparedness Innovations (CEPI) and WHO - COVAX
 - COVAX Facility a global collaboration to accelerate the development, production, and equitable access to COVID-19 tests, treatments, and vaccines
 - Access to COVID-19 Tools (ACT) Accelerator
 - COVAX Advanced Market Access
- US buying access to 300M doses of Oxford/AZ vaccine and presumably other 2 vaccines under OWS



Persistent Symptoms

Increasing reports of longer-term symptoms:

- Cough
- Shortness of breath
- Malaise
- Muscle pains
- Impacted smell/taste
- Brain 'fog'
- 50% of long term suffers have psychological problems, 15% PTSD (post traumatic stress disorder)



Testing





Daily number of tests per 100,000 population (all-time average)

Countries —— Maximum recommended positivity

https://coronavirus.jhu.edu/testing/international-comparison?campaign_id=9&emc=edit_nn_20200708&instance_id=20110&nl=themorning®i_id=126763527&segment_id=32873&te=1&user_id=9b30de89c635f8e9be95d526e62fbb96

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States with positivity equal or below 5%

States with positivity above 5%



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New confirmed cases of Covid-19 in European Union, United States, Brazil, United Kingdom, Israel and Sweden

Seven-day rolling average of new cases (per million), by number of days since 0.1 average daily cases (per million) first recorded



Number of days since 0.1 average daily cases (per million) first recorded

New confirmed cases of Covid-19 in New York, California, Florida, Texas, Arizona and Louisiana

Seven-day rolling average of new cases (per million), by number of days since 0.1 average daily cases (per million) first recorded



Number of days since 0.1 average daily cases (per million) first recorded

CDC Guidance

For People with COVID-19 with Symptoms in Isolation:

- 1. **Symptom-based strategy -** discontinue isolation under the following conditions:
 - At least 10 days have passed since symptoms first appeared and
 - At least 24 hours have passed since last fever without the use of fever-reducing medications and
 - Symptoms (e.g., cough, shortness of breath) have improved
- 2. **Test-based strategy** only if availability of ample testing supplies and laboratory capacity as well as convenient access to testing.
 - Resolution of fever without the use of fever-reducing medications and
 - Improvement in symptoms (e.g., cough, shortness of breath), and
 - Negative results of 2 PCR tests collected ≥24 hours apart.

For Persons Who have NOT had COVID-19 Symptoms but Tested Positive in Isolation:

- 1. Time-based strategy
 - At least 10 days have passed since the date of their first positive COVID-19 diagnostic test assuming they have not subsequently developed symptoms since their positive test. If they develop symptoms, then the symptom-based or test-based strategy should be used.
- Test-based strategy
 - A test-based strategy is contingent on the availability of ample testing supplies and laboratory capacity as well as convenient access to testing. Negative results of 2 PCR tests collected ≥24 hours apart.







1. Do not touch or adjust

TREAT YOUR MASK

LIKE UNDERWEAR

(especially in public).

2. Do not borrow or lend.

3. Make sure fit is tight but comfortable

4. Make sure it is CLEAN.

- 5. Wear the right side out:
- 6. If it is damp, change it.
- 7. Don't go COMMANDO!

@A Chalkboard a Day





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Questions

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