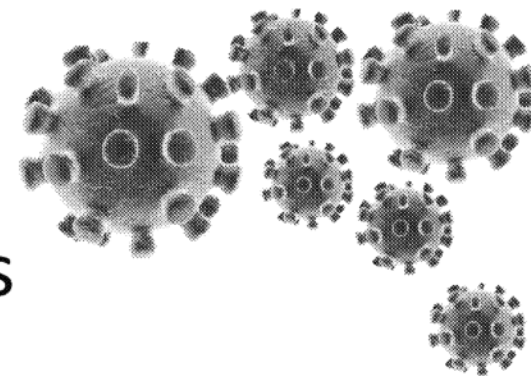


Who is at risk of getting 2019-nCoV?

- **Unprotected close contact** with a confirmed or suspected case
 - Household contacts of an infected person
 - One confirmed health care worker cluster to date
 - Prolonged exposure in a closed space*
- Older people and those with pre-existing medical conditions (e.g. asthma, diabetes, heart disease, obesity) appear to be more vulnerable to severe disease



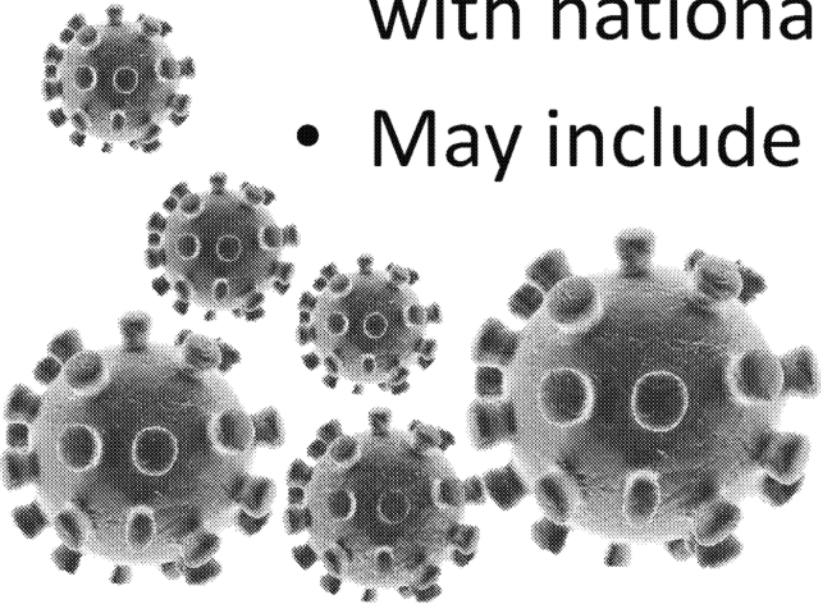
Returning from Hubei



- Quarantine – follow policies of national authorities
 - **Expected to be 14 days**
 - Twice daily temperature monitoring (typically $\geq 38^{\circ}\text{C}$ indicative of illness) and for onset of other symptoms (cough, shortness of breath)
 - Maintain strict adherence to hand hygiene, cough etiquette, environmental cleaning
 - Wear medical mask to protect others in closed settings
 - If symptoms develop, call ahead to your health care provider / facility so that you can be managed safely and keep others safe as well

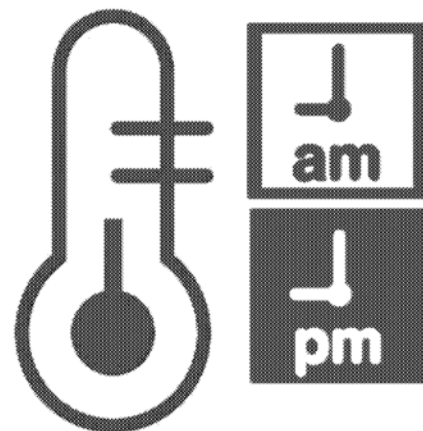
Following exposure to a case of 2019-nCoV

- Public health actions are the same if the ill person is a confirmed or suspected case
- You will be quarantined and monitored in accordance with national policies and protocols
- May include testing



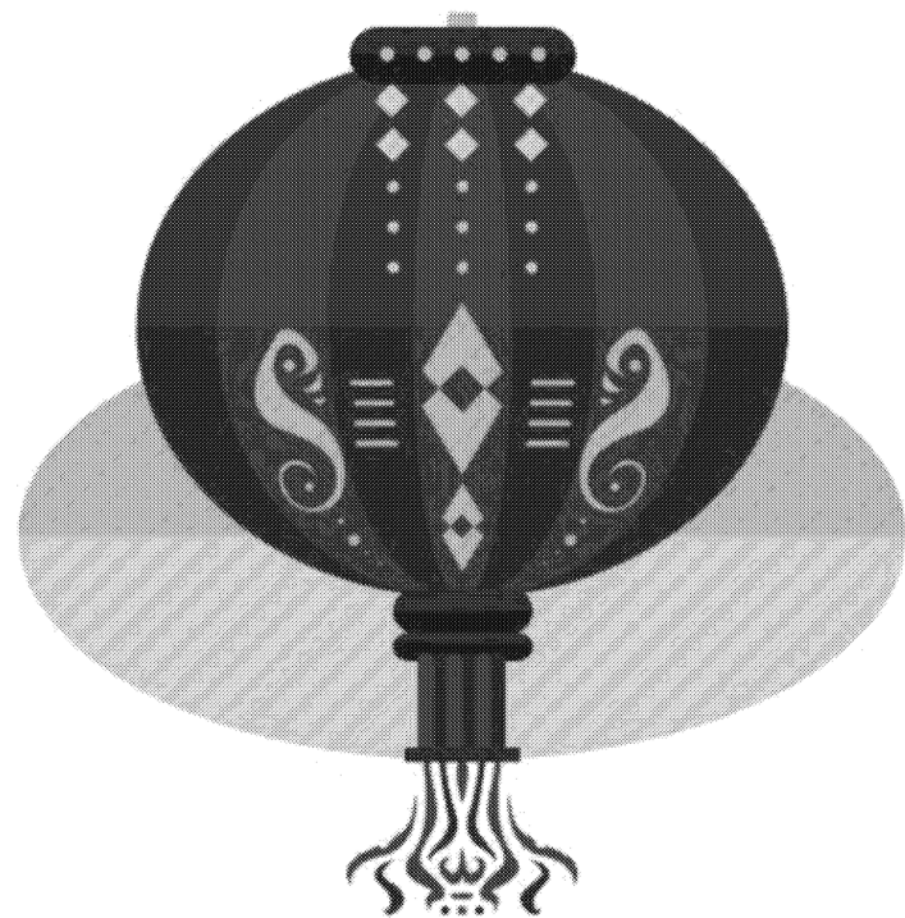
Returning from other provinces

- Be aware - guidance may change as the outbreak evolves
- Quarantine – follow guidance of national health authorities
- Monitor your health and that of your family – as per Hubei recommendations
- National guidelines of China
- www.who.int; Partner Updates



Returning to work and school

- New Year holiday extended to 5 Feb
 - Agency work-from-home policies
 - May need to be further extended so importance of business continuity plans
- School holidays extended to 17 Feb so logistically easier (e.g. access to child minding) to delay return of children currently out of China



Treatment



- There is currently no specific antiviral treatment or vaccine for 2019-nCoV
- Treatment is based on the patient's clinical condition
- Supportive care can be highly effective – **seek health care early**
- **WHO meeting 11-12 Feb in Geneva** for development of therapies and vaccines against the virus

Health system resilience – leave no one behind

- Additional pressure on the health system during 2019-nCoV outbreak (and other) crises
- WHO works with countries to strengthen health system resilience
- WHO will liaise with the central government about access to free coronavirus testing and treatment for all
- Ensure continuity of essential health services for all





Thank You

谢谢



World Health
Organization
Representative Office
for China



世界卫生组织
驻华代表处

2019-nCoV Resources

2019-nCoV Dashboard:

<https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6>

CDC Situation Summary:

<https://www.cdc.gov/coronavirus/novel-coronavirus-2019.html>

WHO Guidance:

<https://www.who.int/emergencies/diseases/novel-coronavirus-2019>

NEJM Correspondence:

<https://www.nejm.org/doi/full/10.1056/NEJMc2001468>

NIAID News Release 1/23/20:

<https://www.niaid.nih.gov/news-events/niaid-officials-discuss-novel-coronavirus-recently-emerged-china>

NIAID Information on Coronaviruses:

<https://www.niaid.nih.gov/diseases-conditions/2019-n-cov>

From: Lane, Cliff (NIH/NIAID) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=2D7E368A3137473BBCE161547A82F2DE-CLANE]
Sent: 1/28/2020 3:59:28 PM
To: Doepel, Laurie (NIH/NIAID) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7e395d705fce4852a2579e5a9e1b5e11-ldoepel]
Subject: Re: USA Today: Coronavirus screenings to expand to 15 new US airports; CDC warns against travel to China

Thanks for letting me know. Just boarded a plane in Capetown.

On Jan 28, 2020, at 5:55 PM, Doepel, Laurie (NIH/NIAID) [E] (b)(6) wrote:

Not sure where you are, but in case you are awake and want to watch, this HHS press conference on 2019-nCoV starts at 11:15 Eastern time. Looks like it will broadcast on YouTube, which I hope you might get via the image below.

Coronavirus screenings to expand to 15 new US airports; CDC warns against travel to China

Dawn Gilbertson
USA TODAY
<image005.jpg>

The Centers for Disease Control and Prevention and the U.S. State Department late Monday expanded their travel advisories to cover all of China due to the [coronavirus outbreak](#).

The broader travel alerts come as the U.S. plans to expand screening for the virus to 20 airports from [the current five](#). Details on the additional airports have not been released but Vice President Mike Pence said in a speech Monday that the airports collectively handle 90% of all passengers from China. Houston's George Bush Intercontinental Airport confirmed on [Twitter](#) that is is one of the 15 additional airports.

The CDC issued a [level 3 travel warning](#), its highest level, recommending travelers avoid all nonessential travel to China. Previously only Wuhan, the epicenter of the coronavirus outbreak, was at a Level 3. The rest of China was rated Level 2, which recommends "practice enhanced precautions."

"The outbreak is growing and there is limited access to adequate medical care in affected areas," the CDC said in a post on Twitter.

The only other country with a CDC Level 3 warning is [Venezuela](#) due to shortages of food, water, electricity, medicine and medical supplies.

Separately Monday, the U.S. State Department issued a [level 3 alert for China](#), urging U.S. citizens to "reconsider" travel to China. Last week, it issued a [level 4 alert](#), its highest, for Wuhan. A level 4 means "Do not travel."

The State Department said anyone who has to visit China should avoid animals (alive or dead) and animal markets, avoid contact with sick people and wash hands frequently with soap and water for 20 seconds.

Private companies are also giving warnings to employees. On Monday, [Facebook restricted its employees' travel to China](#).

<image006.jpg>

What if I have a flight scheduled to China?

U.S. airlines serving China had already put [waivers](#) in place for travelers who don't want to travel to destinations, including Beijing and Shanghai, amid the outbreak, allowing them to postpone or cancel plans without the usual penalty. And they have been expanding the covered dates of travel as the outbreak expands.

Delta, American and United all offer nonstop service between the U.S. and Beijing and Shanghai.

The airlines' waivers, terms of which vary by carrier:

[Delta](#): Covers travel to, from or through Beijing and Shanghai through Feb. 29.

[American](#): Covers travel to, from and through Beijing and Shanghai through Feb. 29.

[United](#): Covers travel to, from and through Beijing, Shanghai and Chengdu through Feb. 29.

It is unclear how the broader government warnings about avoid travel to China will affect their operations, including flights.

CDC officials had strongly suggested in a briefing with reporters on Monday that changes in its travel and screening policies were coming given the rapidly evolving situation.

"I expect that in the coming days our travel recommendations will change," said Dr. Nancy Messonnier, director of the agency's National Center for Immunization and Respiratory Diseases.

What happens during those coronavirus airport screenings?

Travelers flying from China to one of the screener airports will be asked to fill out a short questionnaire about their travel, any symptoms, and contact information.

CDC staff will also take travelers' temperatures with a handheld thermometer that doesn't touch the skin and watch for signs of a cough or difficulty breathing. In the case of travelers who appear sick, the CDC will evaluate them further to determine whether the passenger should be taken to a hospital for further care. However, the first two U.S. cases, in [Seattle](#) and [Chicago](#), involved travelers who didn't show symptoms at the airport.

A pilot's perspective on coronavirus: [Should you wear a surgical mask? What did SARS teach travelers?](#)

For travelers without symptoms, the CDC is handing out health information cards with details on the symptoms they should look for up to two weeks after leaving China.

China's confirmed cases have ballooned to more than 2,800 since the coronavirus was discovered last month. The epicenter of the outbreak is Wuhan, a city of 11 million people, but more than 40 cases have been confirmed in a dozen other countries, including [five in the U.S.](#) According to the CDC, [there are 73 more cases under investigation in 26 states](#).

How to stay healthy on a plane: [What you can do as coronavirus, flu, colds raise travel concerns](#)

Coronavirus quarantines already impacting global tourism industry

<image007.jpg>

In China, the government extended its [Lunar New Year holiday](#) period by three days, until Sunday, to ease crowds as tens of millions of Chinese return home from visiting family and tourist sites. At least 17 Chinese cities have imposed lockdowns affecting 50 million people.

There are growing concerns about the travel and tourism impact from the outbreak. In addition to airlines including American, Delta and United, hotels, tourist attractions and other businesses rely on travel between the U.S. and China.

Hotels, airlines, casinos and cruise operators were among the industries suffering the most immediate repercussions, especially with the outbreak occurring during the Lunar New Year, one of the biggest travel seasons in Asia.

<image008.png>

What happens in China means a lot more to the world economy than it did when the SARS outbreak struck nearly two decades ago. In 2003, China accounted for 4.3% of world economic output. Last year, it accounted for 16.3%, according to the International Monetary Fund.

About 134 million Chinese traveled abroad in 2019, up 4.5% from a year earlier, according to official figures. Before the outbreak, the China Outbound Tourism Research Institute predicted some 7 million Chinese would travel abroad for the Lunar New Year this year, up from 6.3 million in 2019.

Hong Kong, Thailand, Japan and Vietnam were top destinations, but Chinese tourists are big spenders in cities like London, Milan, Paris and New York.

Tourism industries suffer amid coronavirus outbreak: ['China is a critically important market'](#)

Hong Kong stops all rail, ferry service to mainland China

<image008.png>

Hong Kong said Tuesday it would cut all links to mainland China as the United States and other governments prepared to evacuate citizens from the Chinese city at the center of a virus outbreak that has now killed more than 100 people.

Carrie Lam, Hong Kong's chief executive, stopped short of a total closing of the border, as North Korea and Mongolia have done, but said that flights from the mainland would be reduced.

The U.S. Consulate in the central Chinese city of Wuhan, where authorities cut off most access Jan. 22 in an effort to contain the disease, was preparing to [fly its diplomats and some other Americans out of the city](#) on Wednesday.

Japan and South Korea said they would send planes to Wuhan this week to evacuate their citizens. France, Mongolia and other governments also planned evacuations.

Coronavirus: US says 'do not travel' to Wuhan, China, as airlines issue waivers, add safeguards

Contributing: John Bacon, USA TODAY, Associated Press

<image008.png>

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From: Lane, Cliff (NIH/NIAID) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=2D7E368A3137473BBCE161547A82F2DE-CLANE]
Sent: 1/31/2020 11:38:03 PM
To: Claudia Christian (b)(6)
CC: McNay, Laura (NIH/NIAID) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d089e838a3824b60b91b6c394fedd335-lmcnay]
Subject: Re: Checking in- Wuhan Coronavirus

Thanks – slides received.

NIAID role (if any) in China yet to be clarified.

From: Claudia Christian (b)(6)
Date: Wednesday, January 29, 2020 at 3:26 PM
To: "Lane, Cliff (NIH/NIAID) [E]" (b)(6)
Cc: Laura McNay (b)(6)
Subject: RE: Checking in- Wuhan Coronavirus

Hi Dr. Lane,

Of the 24 sites in our network, the 3 that make most sense as a starting point are:

1. Beijing Chest Hospital
2. Wuhan Institute
3. Shenzhen No 3

They all have recently trained clinical research staff.

We have a very close partnership with Beijing Chest and have co-located offices and staff there when we have active programs. BCH is likely better able to mobilize at this moment even though Shenzhen No. 3 has recently been named Center of Excellence for Infectious Disease by the Central Government.

All 3 have case load with Wuhan, of course, being the epicenter.

These potential sites could benefit from a dry run/wet run type training scenario which our on the ground team could develop and deliver under your guidance. Certainly the other sites can also be evaluated for readiness based on your 3 criteria.

I am attaching the slides we recently presented at the Union Meeting. It's 13MB – I am worried it won't go through – let me know if you get it. Slide 6 has a better map than the one I cut and pasted into the original e-mail and slide 11 covers the training we did.

Ask me more!

Thanks
Claudia

From: Lane, Cliff (NIH/NIAID) [E] (b)(6)
Sent: Wednesday, January 29, 2020 1:45 PM
To: Claudia Christian (b)(6)

Cc: McNay, Laura (NIH/NIAID) [E] (b)(6)

Subject: Re: Checking in- Wuhan Coronavirus

Claudia,

Thanks very much for reaching out. If you could provide a bit more detail on what you would see as the best situated sites (infrastructure-esp personnel; politics; case load) it would be of interest.

Thanks,

Cliff

On Jan 29, 2020, at 7:32 PM, Claudia Christian (b)(6) wrote:

Dear Dr. Lane,

I imagine 2020 is off to a busy start for you and your team with the ongoing network activities, upcoming PREVAIL events and the recent coronavirus events to name a few.

We are tracking the coronavirus news closely and are always ready to assist in any way we can. I wanted to send you a note to remind you of the amazing network we set up for TB clinical trials in China with NIH funds that is now in excess of 20 sites including general hospitals and ID units. We know that some of those sites are seeing coronavirus patients now. We also would be able to mobilize quickly in neighboring countries that are also seeing cases (e.g. Thailand, Vietnam, Cambodia, etc.).

<image002.png><image010.png>

Please let us know if we can provide any additional information and support to address the growing crisis.

Thanks for taking the time to look at one more e-mail.

Claudia

CLAUDIA CHRISTIAN | Senior Vice President, Global Clinical Operations

T: (b)(6) | **M:** (b)(6) (b)(6) [fhiclinical.com](mailto:(b)(6)@fhiclinical.com)

359 Blackwell Street, Suite 200, Durham, NC 27701

<image011.png> <image003.png> <image004.png>

From: Lane, Cliff (NIH/NIAID) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=2D7E368A3137473BBCE161547A82F2DE-CLANE]
Sent: 1/31/2020 1:00:45 AM
To: Anu Osinusi (b)(6)
Subject: Re: nCoV and PALM-2

Either is good. Easiest way to reach me is by cell (b)(6)

On Jan 30, 2020, at 6:10 PM, Anu Osinusi (b)(6) wrote:

Dear Dr Lane,

Tomas mentioned that he had spoken with you earlier today.

I would love to speak with you about NIAID's efforts to address this new coronavirus outbreak as well as address any issues you might have about PALM-2 study.

I have been in contact with Dr Davey and Joh Beigel over the last couple of weeks.

Could we speak tomorrow or next week?

Best

Anu

From: Lane, Cliff (NIH/NIAID) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=2D7E368A3137473BBCE161547A82F2DE-CLANE]
Sent: 1/31/2020 4:36:52 PM
To: David Boulware (b)(6); Jim Neaton (b)(6)
Subject: Re: RCT protocol for coronavirus?

David,

Thanks for the email and the thought.

There is a US government interagency group looking at studies and study designs. The focus at the moment is on remdesivir based on in vitro data for MERS/SARS.

I think there has been interest in leverage some of the INSIGHT flu work regarding protocol design, endpoints.

Cliff

From: David Boulware (b)(6)
Sent: Friday, January 31, 2020 11:13 AM
To: Lane, Cliff (NIH/NIAID) [E] (b)(6); Jim Neaton (b)(6)
Subject: RCT protocol for coronavirus?

Cliff and Jim,

If sofosbuvir is potentially active against nCoV, why not write up a NIAID RCT as a therapeutic trial? Just in case this worsens... it may not, but would be nice to have a RCT ready to go. Maybe something is already in the works. If not, would not be hard to draft something.

David

From: Lane, Cliff (NIH/NIAID) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=2D7E368A3137473BBCE161547A82F2DE-CLANE]
Sent: 1/23/2020 11:32:01 PM
To: Hensley, Lisa (NIH/NIAID) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=083ee40b073846fdabb00489a21d8247-hensleye]
Subject: Re: WHO Consultation regarding the Wuhan coronavirus

Only other thing might be to make sure Gray Handley is aware. Any travel to WHO meetings would require approval from Gray.

From: Lisa Hensley (b)(6)
Date: Friday, January 24, 2020 at 12:27 AM
To: "Lane, Cliff (NIH/NIAID) [E]" (b)(6)
Subject: Re: WHO Consultation regarding the Wuhan coronavirus

Cliff
Terrific

Anything i need to do either regarding DRC or below?

Lisa

Sent from my iPhone

On Jan 23, 2020, at 6:05 PM, Lane, Cliff (NIH/NIAID) [E] (b)(6) wrote:

Lisa – thanks for sending. Meetings in Kinshasa seem to be going well. Cliff

From: Lisa Hensley (b)(6)
Date: Thursday, January 23, 2020 at 10:53 PM
To: "Schmaljohn, Connie (NIH/NIAID) [E]" (b)(6), Hilary Marston (b)(6)
Cc: "Lane, Cliff (NIH/NIAID) [E]" (b)(6)
Subject: FW: WHO Consultation regarding the Wuhan coronavirus

Connie and Hilary

Please see the request from Bill for the participation in the WHO roadmap.

Lisa

From: William Dowling (b)(6)
Sent: Thursday, January 23, 2020 4:40 PM
To: Carolyn Clark (b)(6); Florence, Clint (NIH/NIAID) [E] (b)(6)
Wolfram, Larry (NIH/NIAID) [E] (b)(6); Raul Gomez Roman (b)(6)
(b)(6); Carroll, Miles (b)(6); Graham, Barney (NIH/VRC) [E] (b)(6); Schmaljohn, Connie (NIH/NIAID) [E] (b)(6)
(b)(6); Holbrook, Michael (NIH/NIAID) [C] (b)(6); Hensley, Lisa (NIH/NIAID) [E] (b)(6); Baric, Ralph (b)(6); Munster, Vincent (NIH/NIAID) [E] (b)(6)

(b)(6) Vasan, Vasan (H&B, Geelong AAHL) (b)(6)
(b)(6)
(b)(6) Damon, Inger K. (CDC/DDID/NCEZID/DHCPP) (b)(6)
(b)(6) Kayvon Modjarrad (b)(6)
Cc: HENAO RESTREPO, Ana Maria (b)(6); GSELL, Pierre (b)(6); COSTA, Alejandro Javier (b)(6); RIVEROS BALTA, Alina Ximena (b)(6)
Subject: WHO Consultation regarding the Wuhan coronavirus

Hello all,

On behalf of the WHO R&D Blueprint team, I am writing to request your participation on a call tomorrow at 9 PM Central European time (which will be Saturday morning for some of you). The purpose of the call is to lend your expertise to coordination of WHO response efforts. To that end, we would like to discuss the current status of efforts to culture the Wuhan coronavirus (or generate a recombinant virus); recent sequence data and modeling of the Spike protein; and potential next steps to assess cross reactivity with other coronaviruses. We realize that this is very short notice, but the situation is very dynamic. This would be an initial call with lengthier and more detailed calls in the near future.

Also, for those who have not seen them, I am attaching two reports on this topic that just came out and are highly relevant to the conversation.

Please let us know if you can make it. Call in details will be sent tomorrow.

Thank you,

Bill Dowling (seconded to WHO)

William Dowling, PhD

Non-Clinical Vaccine Development Leader

[Redacted signature]

(b)(6) (o)
(b)(6) (m)

(b)(6)

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From: Lane, Cliff (NIH/NIAID) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=2D7E368A3137473BBCE161547A82F2DE-CLANE]
Sent: 1/30/2020 9:48:19 PM
To: Markovitz, David (b)(6)
CC: Embry, Alan (NIH/NIAID) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=882a18a10a134c49acac21cb83fd599d-embrya]; Marston, Hilary (NIH/NIAID) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ab30660917b942ffba9ae95d631116f3-marstonhd]
Subject: Re: Coronavirus

David,

Alan Embry in DMID and Hilary Marston in Dr. Fauci's office are helping to coordinate our response in this area. I have copied both of them.

Cliff

On 1/30/20, 3:25 PM, "Markovitz, David" (b)(6) wrote:

Hi Cliff,
My colleague in Hong Kong got his hands on an isolate of the new coronavirus and will soon be testing it against our banana lectin compound. If it works, as is predicted, is there anyone who you know of with whom I can speak in order to accelerate development of this compound? So far, it's looked very safe, at least in mice.
We just had a big paper showing it's a efficacy against influenza that was published in PNAS. All the best, David

Sent from my iPhone

> On Jan 21, 2020, at 5:17 PM, Lane, Cliff (NIH/NIAID) [E] (b)(6) wrote:
>
> I am not aware of anyone in the US with an isolate but guess that one will be reversed engineered soon (if one is not obtained from the Seattle case).
>
> cliff
>
>> On Jan 21, 2020, at 4:56 PM, Markovitz, David (b)(6) wrote:
>>
>> Hi Cliff,
>> Greetings and salutations! Our magical banana lectin has been affective against every coronavirus tested so far and we would love to test it against the new coronavirus, with my collaborator who is in Hong Kong. (unfortunately, the Chinese government has not been too willing to share isolates so far). Any idea how to get a hold of an isolate? Or someone who could test it here? We just had a paper in PNAS about the efficacy of the lectin against influenza so it seems to be something that can be given in vivo, as we have also published with Ebola.

All the best, David

>>
>>
>>
>> Sent from my iPhone
>> *****
>> Electronic Mail is not secure, may not be read every day, and should not be used for urgent or sensitive issues
>>
>> *****
Electronic Mail is not secure, may not be read every day, and should not be used for urgent or sensitive issues

From: Lane, Cliff (NIH/NIAID) [E] [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=2D7E368A3137473BBCE161547A82F2DE-CLANE]
Sent: 1/23/2020 11:00:11 PM
To: Davey, Richard (NIH/NIAID) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bd0281280f634cda9fd5b03fda958ba6-rdavey]; Dodd, Lori (NIH/NIAID) [E] [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a2964312396745bcbf1253d1787f5222-dodd]
Subject: Re: Mamma Mia - Here We Go Again?

(b)(5)

From: "Davey, Richard (NIH/NIAID) [E]" (b)(6)
Date: Thursday, January 23, 2020 at 11:38 PM
To: "Lane, Cliff (NIH/NIAID) [E]" (b)(6), Lori Dodd (b)(6)
Subject: Mamma Mia - Here We Go Again?

You've probably been following the clips and know this, but the Chinese have already been conducting an open-access RCT for 2019-nCoV with lopinavir/ritonavir and have approached Gilead about studying remdesivir next. Per Libby the

(b)(5)

So far I've just been putting on my headphones and listening to movie soundtracks....

-Darth