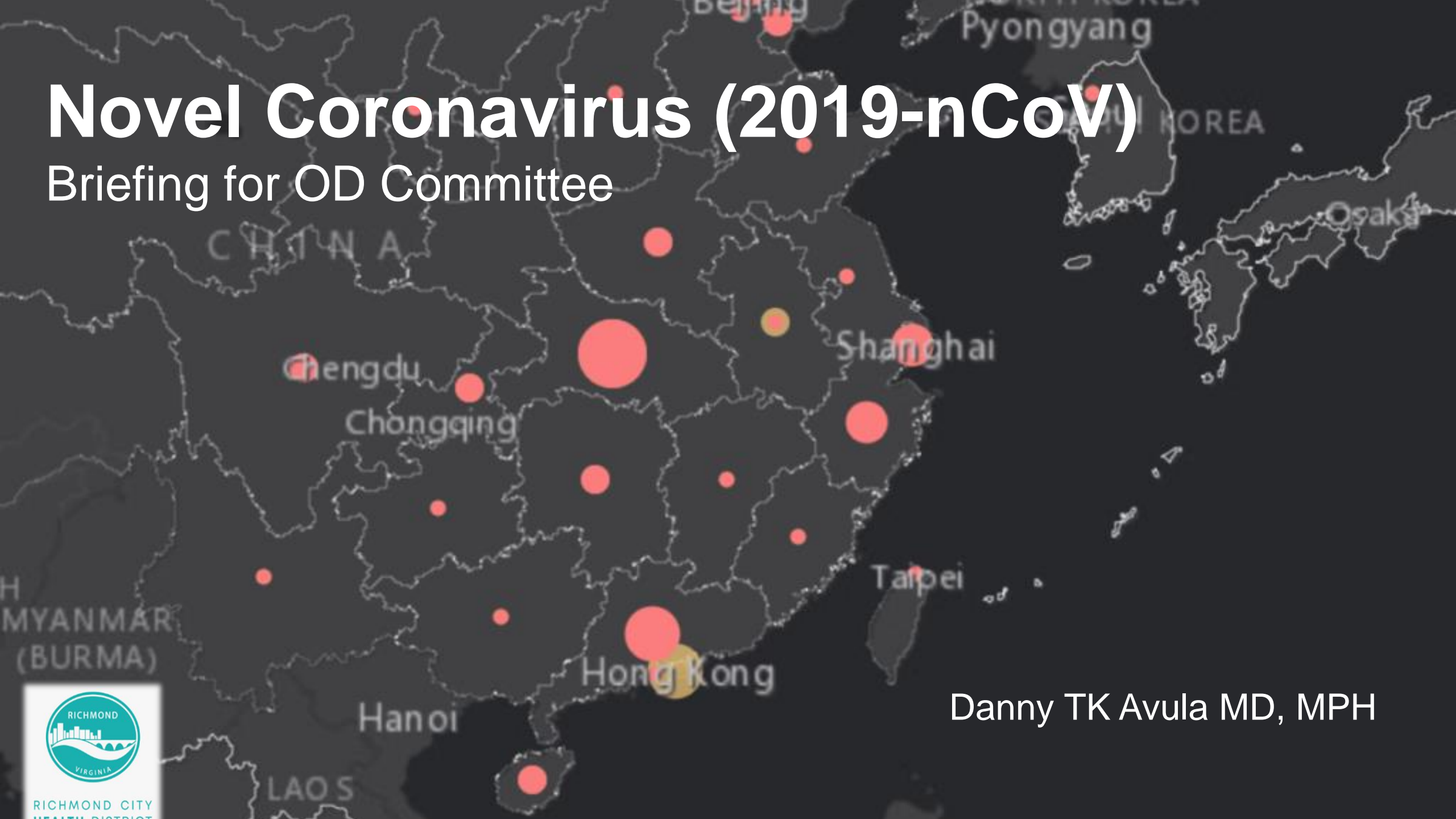


# Novel Coronavirus (2019-nCoV)

Briefing for OD Committee



Danny TK Avula MD, MPH

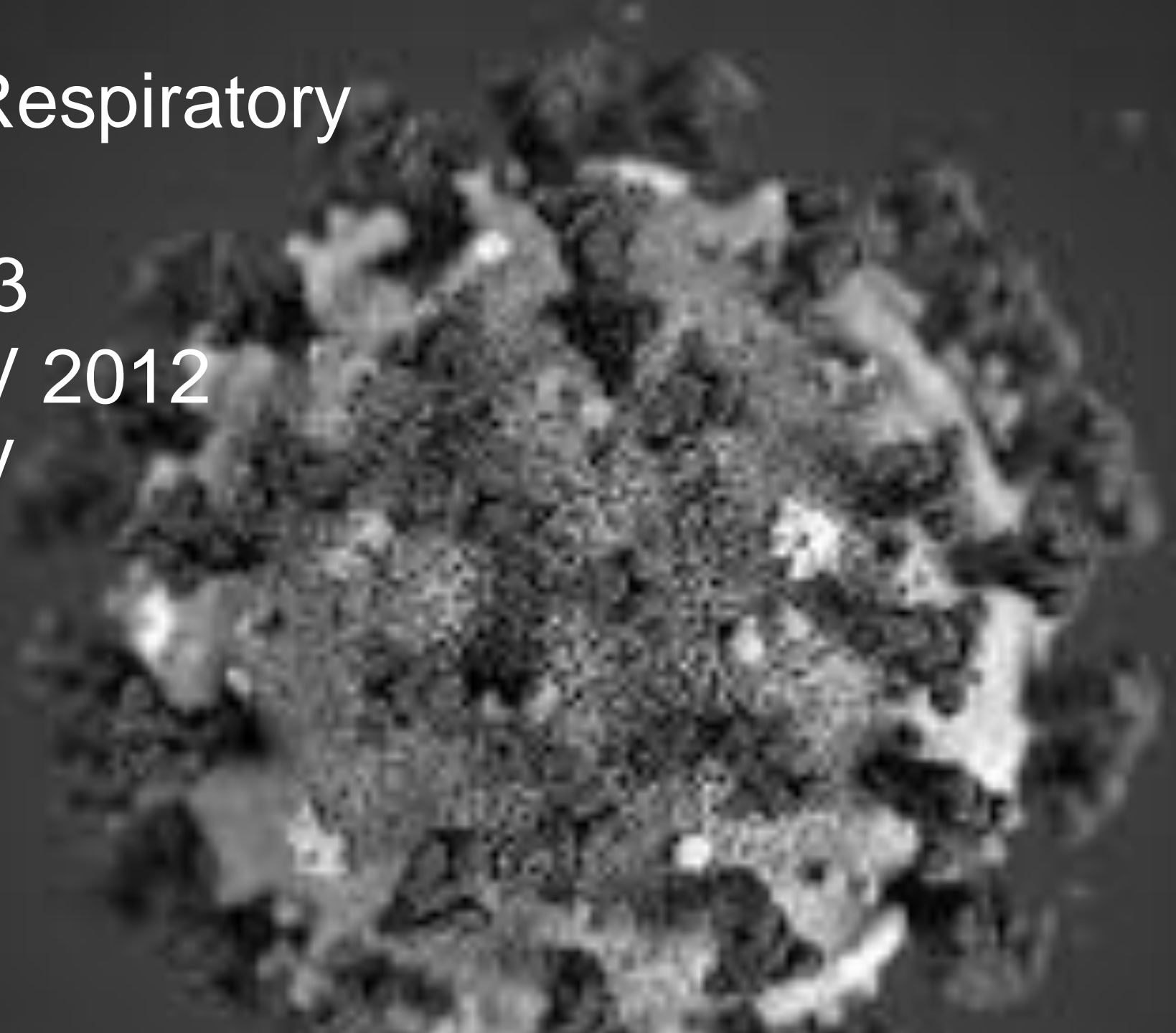


RICHMOND CITY  
HEALTH DISTRICT

**Up until a month ago...**  
**Corona was just a beer!**

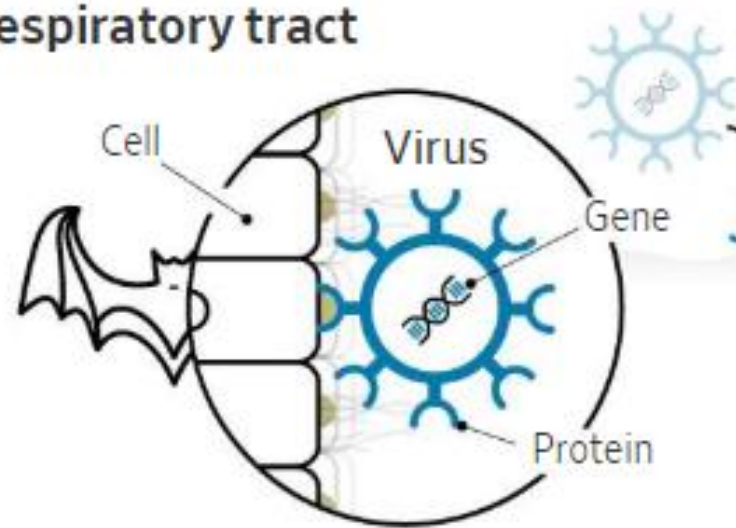


- Common Respiratory Virus
- SARS 2003
- MERS CoV 2012
- 2019-nCoV

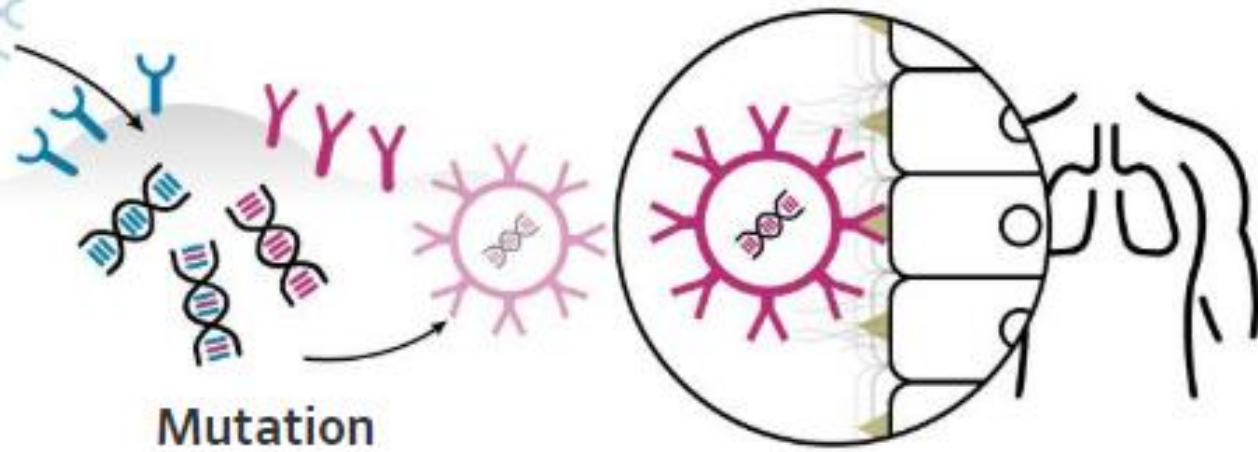




### Bat respiratory tract



### Human respiratory tract



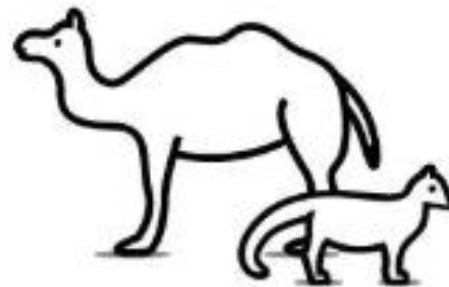
3

In the case of SARS, the virus jumped from bats to civet cats before gaining the ability to infect humans. In the case of MERS, camels served as the intermediate host.

### Original host



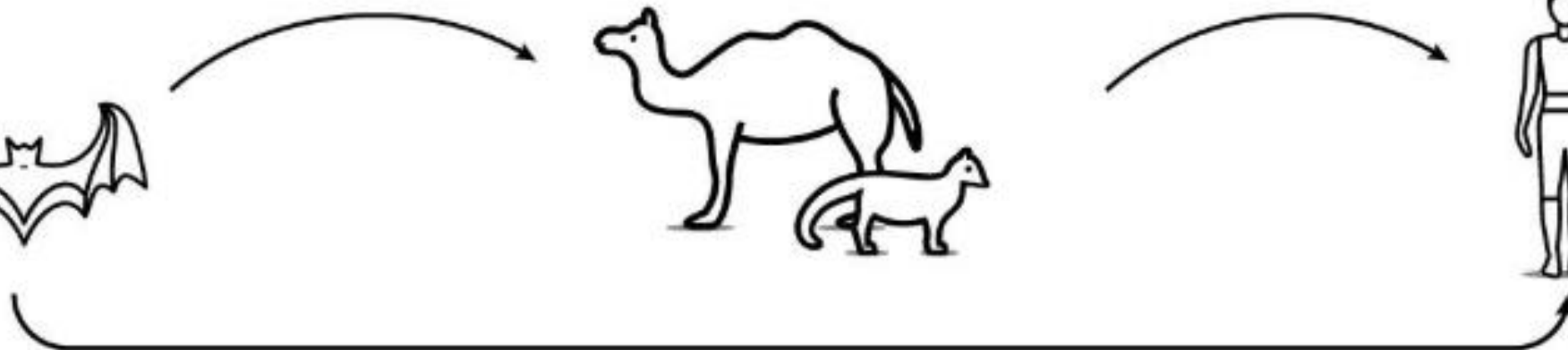
### Intermediate host



### Human



4



# How Many People Are Sick?

Confirmed Cases as of 3/2/20 Reported by the World Health Organization	
Total	87,137 cases; 2,977 deaths
China	79,968 cases; 2,873 deaths
Outside of China	7,169 cases; 58 countries; 104 deaths
United States	61 cases (including 42 from Diamond Princess Cruise Ship); 1 death (2/28/20)

## World must prepare for 'potential pandemic': WHO chief

The World Health Organisation chief said the world should be working harder to contain the spread of the deadly new coronavirus, and should be preparing for a "potential pandemic".

Tedros Adhanom Ghebreyesus told reporters in Geneva that so far, the WHO does not consider the outbreak that has killed more than 2,600 people a pandemic, but said countries should be "doing everything we can to prepare for a potential pandemic".

"The sudden increase of cases in Italy, the Islamic Republic of Iran and the Republic of Korea are deeply concerning," Ghebreyesus said.

# CDC US DATA

## COVID-19: U.S. at a Glance\*

- Total cases: 43
- Total hospitalized: 17
- Total deaths: 2
- States reporting cases: 10

\* These data represent cases detected and tested in the United States through U.S. public health surveillance systems since January 21, 2020. It does not include people who returned to the U.S. via State Department-chartered flights.

## COVID-19: Confirmed and Presumptive Positive Cases in the United States\*

	Confirmed	Presumptive Positive**	Total Confirmed & Presumptive Positive
Travel-related	12	5	17
Person-to-person spread	4	22	26
<b>Total cases</b>	16	27	43

\* These data represent cases detected and tested in the United States through U.S. public health surveillance systems since January 21, 2020. It does not include people who returned to the U.S. via State Department-chartered flights

\*\* A presumptive positive case has tested positive by a public health laboratory and is pending confirmatory testing at CDC. States are reporting presumptive positive cases independently; their case counts are the most up-to-date.

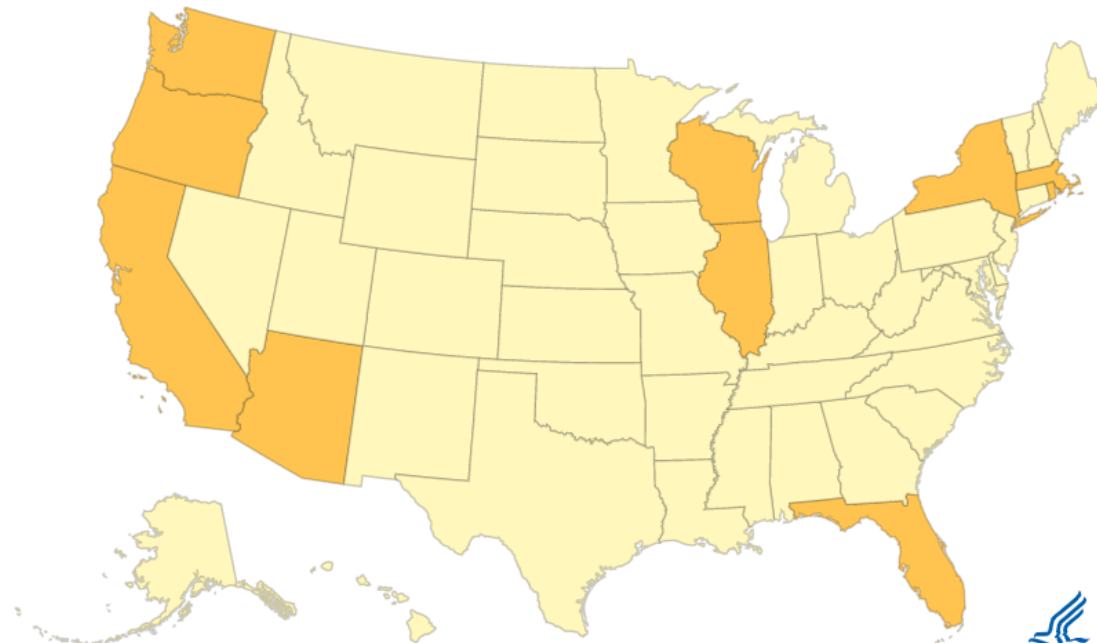
# CDC US DATA

## COVID-19: Cases among Persons Repatriated to the United States

	Positive
Wuhan, China	3
<i>Diamond Princess</i> Cruise Ship <sup>†</sup>	45

<sup>†</sup> Cases have laboratory confirmation and may or may not have been symptomatic.

## States with Confirmed and Presumptive Positive Cases of COVID-19\*





# Virginia Cases

- 0 confirmed cases
- 8 individuals tested with negative results



# White House may seek \$1bn for coronavirus response: report

The White House could request close to \$1bn from US lawmakers to help boost the nation's response to the coronavirus, the Washington Post reported citing three unnamed people briefed on the plan.

The White House's request may be sent to Congress in a few days, the newspaper reported.

# What Is the Risk for Virginians at this Time?

- Immediate risk to general public in Virginia is low
  - People exposed to ill persons are at greater risk - family members and healthcare workers caring for patients with COVID-19
- Situation is evolving
  - Future risk will depend on how well the virus spreads and how sick it makes people

# How Is the U.S. Responding?

- January 31 US declares public health emergency.
- Public health entry screening at U.S. airports
- CDC Level 3 Travel Advisory - Avoid all nonessential travel to China, Iran, Italy, South Korea
- Surveillance
- Started on vaccine development
- Clinical Trials on Antivirals have begun

# How is VDH/RCHD Responding?

- Established ICS structure to coordinate the public health response
  - Situation reports M/W/F
- Monitoring travelers. 279 to date, 126 Active
- Working closely with clinical providers and CDC EOC to find, isolate, and diagnose cases early to help prevent further spread
- Case managing patients who are being tested for the virus
- Identifying contacts of those patients



# Nonpharmaceutical Interventions (NPIs)

- Personal NPIs - personal protective measures such as respiratory etiquette, handwashing, and staying home when sick.
- Community NPIs - aimed at increasing social distance in community settings, such as schools (with closures and e-learning), workplaces (with teleworking, teleconferencing), and mass gatherings (with the postponement or canceling of mass gatherings).
- Environmental NPIs - surface cleaning measures (these are the routine cleaning of frequently touched surfaces that we recommend every day to stop the spread of respiratory viruses).

# Take Home Messages

- Rapidly evolving situation
  - Case counts will continue to grow in the coming days and weeks
  - Interim guidance will change
- More to learn about virus source, transmission factors and risks
- Promote flu and respiratory infection prevention
- Updates will be communicated via [www.vdh.virginia.gov/coronavirus](http://www.vdh.virginia.gov/coronavirus) as more information is available
- Centers for Disease Control and Prevention (CDC): [www.cdc.gov/coronavirus/2019-nCoV](http://www.cdc.gov/coronavirus/2019-nCoV)