

# Let's know COVID-19 and prevent its infection !

One World One Health Research Forum



Edit: KH, Narration: YM, SM, ET

### COVID-19の現状 Corona Virus Disease, 2019

#### <出典>4月8日時点 WHO・各国政府発表

<出典>4月11日時点 厚生労働省発表

1000人以上

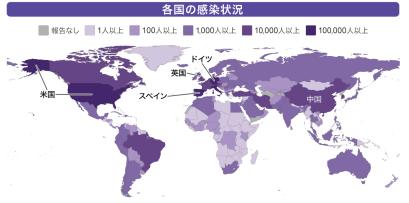
500人以上

100人以上

50人以上

10人以上

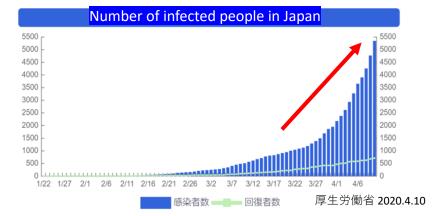
1人以上 報告なし

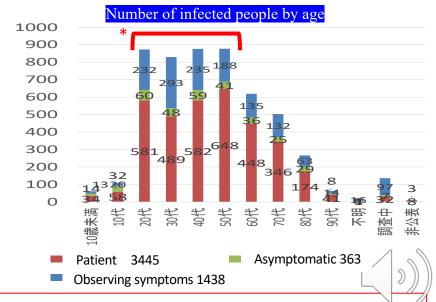


※中国および直近1週間で30,000人以上感染者数が増加した国名を記載しています

Infection status in Japan





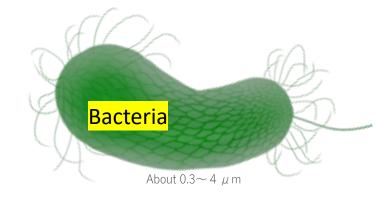


\* Many people in their 20s to 50s are infected: Some people have no symptoms

非公表

調着中

## What is a virus? Its size is nanometer (nm) Smaller than bacteria (µm)





Colonavirus

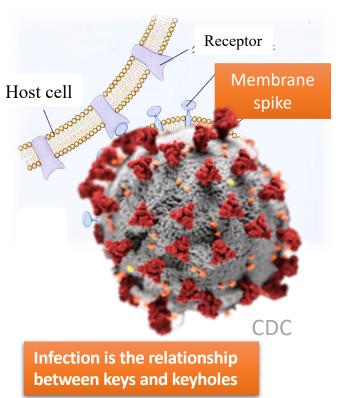
Diameter 100~200 nm

Feature	Virus	Bacteria
<b>Composition unit</b>	ウイルス粒子	細胞
Gene	DNA or RNA	DNA
Self-propagation	Incapable	Can
Energy synthesis (ATP)	Incapable	Can
Protein synthesis	Incapable	Can

A virus can only grow if it infects living cells.



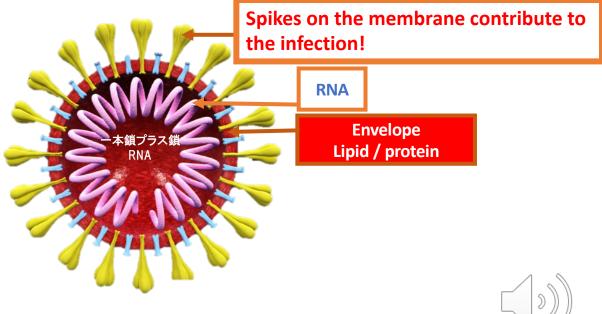
### SARS-CoV2243? Severe Acute Respiratory Syndrome Coronavirus 2



Coronaviruses include viruses that infect humans and animals There are types that infect various animals such as cats, pigs, and cows.

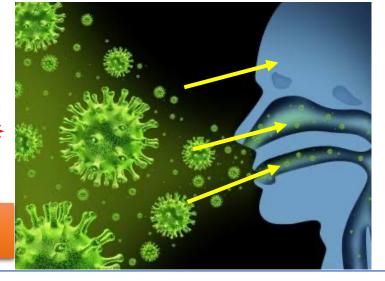
7 types of "coronavirus" that infect humans

- 4 types are common causative viruses
- 3 types show serious symptoms
  - SARS coronavirus (SARS-CoV, SARS-CoV2)
  - MERS coronavirus



# Why do we get the virus ?

The risk of virus infection is about 2m It is important that you do not spread or receive the droplet !



- $\checkmark$  The virus infects the eyes, nose, and mouth.
- $\checkmark$  The virus on your hands infects your eyes, nose, and mouth



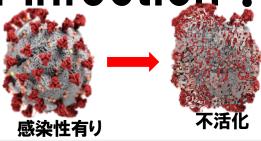
Masks are effective in preventing the spread of droplet ! Wear a mask if you have a cough, sneeze or fever.



# To protect yourself from infection !



- $\checkmark$  There is a virus on your hands.
- ✓ It is important to wash your hands often and keep them always clean !



"Disinfection" is effective for breaking the virus membrane !

- Alcohol disinfection (more than 60%) for disinfection
- Hand washing with soap is effective (30 seconds)
- Door knobs, handrails and desks can be effectively wiped with 0.05% chlorine bleach.





# Avoid the "Three C's"

Important notice for preventing COVID-19 outbreaks.

### **Avoid the "Three Cs"!**

- **1. Closed spaces** with poor ventilation.
- 2. Crowded places with many people nearby.
- **3. Close-contact settings** such as close-range conversations.



One of the key measures against COVID-19 is to prevent occurrence of clusters. Keep these "Three Cs" from overlapping in daily life.



Factors causing clusters of infection

- Activities that increase the amount of ventilation (breathing)
- ✓ Screaming and singing closely
- ✓ Close up in an enclosed space
- ✓ Even if you do not cough or sneeze, the virus will be excreted and others will be infected

(2020/4/18 JAID Emergency Symposium)

# Important thing

#### To prevent infection

- > Wash well, avoid crowds, ventilate
- > Attention to not transmit the virus to others
- > Your actions may infect your relatives. Think you might be infected!
- > Infection can be prevented by avoiding unnecessary outings!
- > After returning from the area where the emergency was declared, refrain from going out for a while and check the health condition.

#### When you may be infected

- > If you have a cold, such as a fever, cough, nasal discharge, or abnormal olfaction, stay in the room.
- > Check your health every day.
- > Avoid visiting friends' homes with symptoms as much as possible.
- > Avoid contact with sick people and encourage masks and hand washing.

#### Maybe ... I might have been infected !!

- ➢ If you have a fever of 37.5 ℃ or higher for 4 days and have strong fatigue (fatigue) or difficulty in breathing (dyspnea), call a health center or other organization.
- Returnee / Contact Person Consultation Center <u>https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou\_iryou/covid19-kikokusyasessyokusya.b\*ml</u>
- If you are worried about influenza etc., please consult your GP as usual.

# For the latest information, click here

- Ministry of Health
  - <u>https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/0000164708\_0</u> 0001.html
  - <u>https://www.forth.go.jp/topics/fragment1.html</u>
  - <u>https://www.forth.go.jp/useful/attention/index.html</u>
- National Institute of Infectious Diseases
  - <u>https://www.niid.go.jp/niid/ja/</u>
- Ministry of Foreign Affairs

<u>https://www.anzen.mofa.go.jp</u>

• WHO

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

