# Infection Prevention and Control Guidance for COVID-19

Shanghai Maritime University

### Physicochemical properties of COVID-19







- Diethyl ether
- Chloroform
- Disinfectant with chlorine
  - Peroxyacetic acid





### The main route of transmission



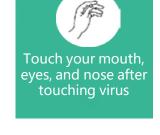






Nasal mucosa





 When exposed to high concentrations of aerosol for a long time in a relatively closed environment, there is a possibility of aerosol transmission

## How to distinguish between the common cold, flu and COVID-19

#### Common cold

- Nasal congestion, runny nose and other upper respiratory symptoms.
- No obvious fever, fatigue, headache, arthralgia, general discomfort, loss of appetite, etc.
- Symptoms of the upper respiratory tract are usually more pronounced and systemic symptoms are milder.

#### Flu

- Respiratory infections caused by influenza virus infection
- Acute onset, symptoms such as high fever, sore throat, headache, muscle soreness, and loss of appetite.

#### COVID-19

- Fever, fatigue, dry cough, and a few patients with symptoms such as nasal congestion, runny nose, and diarrhea.
- Some patients only show low fever, mild fatigue, etc., without pneumonia
- Diagnosis still requires a combination of epidemiological history and laboratory test results.

The three pathogens are different

### Suspected and confirmed cases of COVID-19

Suspected case	Diagnostic Clinical History of criteria manifestation epidemiology	<ul> <li>Travel history or residence history in Wuhan and surrounding areas, or other communities with case reports within 14 days before onset.</li> <li>History of contact with new coronavirus infection (positive nucleic acid test) within 14 days before onset.</li> <li>Patients with fever or respiratory symptoms from Wuhan and surrounding areas, or from a community with case reports in the 14 days before onset.</li> <li>Cluster onset.</li> </ul>
		<ul> <li>Fever and / or respiratory symptoms.</li> <li>With pneumonia imaging features.</li> <li>Normal or reduced white blood cell count or reduced lymphocyte count in early onset</li> </ul>
		<ul> <li>Have any 1 of epidemiological history and meet any 2 of clinical manifestations</li> <li>If there is no clear epidemiological history, it meets 3 of the clinical manifestations</li> </ul>

Confirmed case

 Suspected cases, those who test positive for nucleic acid are confirmed cases

#### How to do home medical observation

(People with travel history of COVID-19 endemic areas)



- Reduce outings
- Avoid going to crowded public places



- Self-health
   monitoring for 14
   consecutive days,
   temperature
   measurement
   twice a day
   Try to live alone
- Reduce close contact with family





### How to take preventive measures during COVID-19

Develop good hygiene habits

Window ventilation

Wash your hands frequently

Less party with others

Wearing masks when going out

Develop a healthy lifestyle Good health monitoring

No contact no purchase wild animals

### How to properly measure underarm temperature









- Cling to the skin
- Clamp for 10 min



Normal armpit temperature between 36-37 ° C

#### When to see a doctor

#### At the same time

Fever (armpit temperature ≥37.3C), cough, shortness of breath, and other symptoms of acute respiratory infections.



Within 14 days before the onset, have travel history or living history in Wuhan and surrounding areas, or other communities with case reports; have contact history with 2019-nCoV infected people (positive nucleic acid test); or have been in contact with Wuhan and surrounding areas, or other patients with fever or respiratory symptoms in the case-reporting community.



### Precautions for going to the hospital













### How to keep and clean masks

Reuse

- Hang in a clean, dry place, or place it in a clean, breathable paper bag.
- Masks should be stored separately to avoid contact with others and identify the user of the mask.

Not washable Not disinfection Not heatable

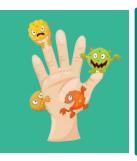
Medical standard mask



Clean the respirator according to the instructions

Cotton
gauze mask
can be
cleaned
and
disinfected

## Why washing hands can effectively prevent respiratory infections



In daily work and life, hands are constantly in contact with items contaminated with viruses and bacteria. If the hands cannot be washed properly, the pathogens on the hands can enter the body through contact with the mucous membranes of the mouth, eyes and nose.



Washing your hands can simply and effectively cut off this route, keeping your hands clean and hygienic can effectively reduce the risk of infection with the COVID-19.

#### How to wash your hands

Wash your hands with running water and soap (or hand sanitizer). Rub each hand for at least 20 seconds.



#### **Commuting Precautions**



Minimal use of public transport for commuting, it is recommended to walk, ride or commute by private car.



If you must take public transportation, wear disposable medical masks. Avoid touching the items on the car with your hands during the journey, avoid touching the mouth, eyes, and nose with your hands. Try to keep a right distance from others, and open the windows when necessary.



Cover your mouth and nose with a tissue when sneezing or coughing.



It is recommended to wear gloves on the way to work.

Disposable gloves cannot be reused. Other reuse gloves should be cleaned and disinfected everyday.

### Notes for students on their way back to school















### How to protect yourself in public places



Minimize activities in crowded public places. If you must go, you should do personal protection and wear disposable medical masks properly.



- When coughing or sneezing, completely cover your nose and nose with a paper towel and throw the used paper towel into a closed bin.
- If you cover with your hands when you cough or sneeze, wash your hands with running water and soap, or scrub your hands with alcohol disinfectant.



Avoid direct touching with hands after touching public goods or facilities.



Wash your hands properly after going home to ensure hand hygiene and avoid hand-to-hand transmission.

### How to take personal protection in public transport













## How to do personal protection if you go to the hospital for other diseases



#### What to note in the office



- It is recommended that the office area be ventilated 3 times a day, not less than 15 minutes each time. Pay attention to keep warm when ventilating.
- Maintain a distance of more than 1 meter from others, and wear disposable medical masks in office.
- Wearing mask when receiving outsiders .



- Put paper towels you used in a covered trash can. If no paper towels are available at the time, use clothes to cover your nose and mouth.
- Wash your hands frequently and drink plenty of water, and insist on washing your hands before eating, after going to the toilet, sneezing, coughing.



- Keep your desk clean.
- Telephone can be cleaned and disinfected with alcohol cotton balls once a day, and can also be cleaned with disinfectant wipes.



Keep the office clean.

## What to note in the teaching area















### What to note when dining in the canteen













#### What to note in dormitory

Measure body temperature, do morning inspections as required. It is recommended to use less airconditioning, open the window at least 3 times a day for more than 30 minutes each time. Regular life, don't stay up late, pay attention to keep warm, drink plenty of water. Develop good personal hygiene habits, wash hands after using the toilet, and keep clothes, bedding clean.

Try not to drop in and keep a right distance, especially with people who cough, sneeze and fever.

Domestic
garbage is put in
as required, and
used masks
should be thrown
away into
covered bins.

Seek medical treatment if suspicious symptoms occur.

Do not touch the wild cats, birds in the campus.

### What to note in the library













