



## **Prevention of Novel Coronavirus Infection, Recommendations for Parents**

Since the emergence of a cluster of viral pneumonia cases caused by a **novel coronavirus**, also known as “**severe respiratory disease associated with a novel infectious agent**” in Wuhan, Hubei Province, People’s Republic of China at the end of December 2019, more than 24,000 people was infected and more than 400 people died worldwide. According to research findings from Professor Yuen Kwok-yung, Chair Professor at HKU Microbiology, this new coronavirus is highly infectious and can effectively spread between people. Some features of this emerging infection are summarized below:

### **Transmission and Incubation Period**

This novel coronavirus can be transmitted through droplets and contact. The incubation period can last for up to 14 days.

### **Clinical Symptoms**

The main symptoms are fever, cough, runny nose, and occasionally shortness of breath. This infection causes pneumonia, severe respiratory infections and even death. According to the current evidence, most severe cases occur in the elderly with weakened immunity or chronic illnesses.

### **Treatment**

No vaccine is currently available to prevent this coronavirus. There is also no effective therapy for this virus at this moment.

## **Measures that Parents Need to Pay Attention to Prevent Novel Coronavirus**

### **1. Education**

- Explain to your child about the current situation of this epidemic so that they understand why and how to take preventive measures. Parents can refer to the children’s educational materials.
- Anti-epidemic buddies: [https://drive.google.com/file/d/1J3mAE8cz29-ITplusigycejb9zi\\_3NRv/view?fbclid=IwAR3hYAq\\_bh-T3PNkygT5vAmO-31PBXG0g\\_mYQ7XjHN59bn2jtDAYsEQxUY](https://drive.google.com/file/d/1J3mAE8cz29-ITplusigycejb9zi_3NRv/view?fbclid=IwAR3hYAq_bh-T3PNkygT5vAmO-31PBXG0g_mYQ7XjHN59bn2jtDAYsEQxUY).

### **2. Daily observation**

- Observe your child daily for symptoms such as cough and runny nose.

- Measure body temperature with an ear thermometer every day. Normal body temperature is 36.5-37.5°C. Our body temperature fluctuates around 37°C, and everyone's normal temperature will be slightly different. Find out the normal temperature of each child will help judge whether he/she has fever or not. For example, take the child's temperature every morning for a week when he/she is well. This can find out his/her average normal body temperature. Most children's body temperature is around 36.5-37.5°C. Parents can use this average reading to evaluate whether your child has fever or not.
- It is extremely inaccurate and unreliable to feel body temperature by touching the forehead.
- If you suspect your child has a fever, you can repeat the measurement. If the body temperature is consistently higher than the average body temperature and there are other symptoms such as cough and runny nose, please help your child wear a mask then take him/ her to attend a doctor.

### **3. Personal hygiene**

- Teach your child to pay attention to personal hygiene and wash hands frequently. Hand hygiene should be done before and after meals, after using the toilet and after touching unclean objects. Wash hands with handwash and water, and remember to clean fingers and wrists. Hand washing should last for at least 20 seconds. If washing hand with water is not possible and there is no obvious dirt on your hands, your child can clean his/her hands with a 70-80% alcohol-based hand rub.
- Avoid touching eyes, nose and mouth without thoroughly cleaning the hands.
- Teach your child to put the toilet lid down before flushing, then clean his/her hands thoroughly.
- Teach your child to cover the nose and mouth with a tissue paper when coughing or sneezing and then carefully discard the tissue paper into a covered trash bin. Thoroughly clean the hands afterwards.

### **4. Household hygiene**

- Maintain good air ventilation at home.
- Children should have their own personal tableware, drinking and mouthwash cups, toothbrushes and towels. They should not share personal belongings with other children or adults.
- Clean your home with 1:99 diluted household bleach daily.
- Clean children's toys with 1:99 diluted household bleach daily and rinse the toys thoroughly afterwards.
- Ensure U-traps drainage pipes are filled with water by pouring water to each drainage outlet daily.

### **5. Stay at home as much as possible**

- Given the possibility of community transmission of novel coronavirus, family members should avoid going to crowded places or participating in mass gathering.
- Children should stay at home during school suspension. You are strongly advised against taking your child to group extracurricular activities, playground, etc.
- Equally importantly, parents should suspend children's participation in interest classes or tutorials to reduce the possibility of cross infection.

- Parents should arrange appropriate learning and play activities for their children at home.
- If there is a genuine need to go out, one should wear a surgical mask when leaving the residence. All surgical masks should only be used once, which should be disposed in a covered trash bin. Remember to clean your hands thoroughly after disposal.
- If there is a genuine need to go out for some leisure activities, children and their families should go to a less crowded place such as the countryside.

#### **6. When travelling**

- Avoid visiting areas with reported novel coronavirus cases.
- Avoid contact with wild animals or birds. Do not visit live poultry markets or farms, wet markets, or eat wild animals. If you feel unwell after returning to Hong Kong, you should wear a surgical mask and seek medical advice immediately. Remember to report your accurate travel history within 14 days before onset of your illness.

#### **7. When your child is unwell**

- If your child has symptoms such as persistent fever, cough and runny nose, you should help him/her wear an appropriate children's mask (cover both nose and mouth) and bring your child to see a doctor.
- Truthfully report children's symptoms, contact history and travel history (including family and caregivers) to the medical personnel.

### **Questions or Misunderstanding about Novel Coronavirus Infection**

#### **Question 1: How to wear a surgical mask correctly?**

**Answer:** Proper wearing of surgical masks can prevent respiratory infections and prevent the spread of this new virus. When wearing the mask, it should be kept close to the face, with the colored side facing outward. The mask should completely cover nose, mouth and chin. The metal edge should be pressed tightly along the bridge of the nose. The mask should be changed every day, and discarded into a covered trash bin. Please perform immediate hand hygiene after touching or removal of the mask.

#### **Question 2: Can surgical masks be reused?**

**Answer:** The design of surgical mask does not allow repeated use because pathogens stay on the filter layer which filters bacteria and viruses which can infect the user. As the innermost layer is used to absorb users' mouth and nose discharge, repeated use of the mask is extremely unhygienic. In addition, do not use alcohol or chemical to damage the outer filter layer.

#### **Question 3: Can pets be infected with the new coronavirus?**

**Answer:** There is currently no scientific evidence that this new virus can be transmitted through household pets such as dogs and cats, but hand hygiene is always recommended after contact with pets as they can spread other bacteria such as Salmonella.

#### **Question 4: Are children having less chance of infection by this novel coronavirus?**

**Answer:** The confirmed cases reported around the world currently are mainly adults and elderly people, and most of them suffer from chronic illnesses. However, a few confirmed children cases have been reported. Due to the potential risks of community transmission in Hong Kong, and that children’s awareness of epidemic prevention and personal protection is not as high as adults, it is vitally important to stay vigilant and adhere to the preventive measures.

**Question 5: Is it possible to sterilize and reuse surgical masks by steaming?**

**Answer:** High temperature and moisture will damage the material of the mask and render it useless. Never try to steam and reuse masks.

**Question 6: Does taking child health supplements help to prevent this new infection?**

**Answer:** Parents may spend a lot on child health supplements. In fact, there is no scientific evidence to prove their preventive effect. On the contrary, maintaining children’s healthy lifestyle such as having a healthy diet, eating fresh fruits and vegetables, exercising regularly and getting enough sleep are the best way to boost their immunity.

**References**

1. Anti-epidemic buddies: [https://drive.google.com/file/d/1J3mAE8cz29-ITplusigycejb9zi\\_3NRv/view?fbclid=IwAR3hYAq\\_bh-T3PNkygT5vAmO-31PBXG0g\\_mYQ7XjHN59bn2jtDAYsEzQxUY](https://drive.google.com/file/d/1J3mAE8cz29-ITplusigycejb9zi_3NRv/view?fbclid=IwAR3hYAq_bh-T3PNkygT5vAmO-31PBXG0g_mYQ7XjHN59bn2jtDAYsEzQxUY).
2. For the latest health information on “Severe respiratory disease associated with a novel infectious agent”, please refer to the Center for Health Protection thematic webpage: [www.chp.gov.hk/tc/features/102465.html](http://www.chp.gov.hk/tc/features/102465.html).
3. Novel Coronavirus pneumonia - Update on Hong Kong. <https://chp-dashboard.geodata.gov.hk/nia/zh.html>.
4. World Health Organization - New Coronavirus Infection Global Real-Time Notification Number of Infections: <http://who.maps.arcgis.com/apps/opsdashboard/index.html#/c88e37cfc43b4ed3baf977d77e4a0667>.

This Recommendation is prepared jointly by Hong Kong College of Paediatricians and Hong Kong Society for Paediatric Immunology Allergy and Infectious Diseases

5<sup>th</sup> February 2020