



Preventing Spread of Coronavirus Disease 2019 (COVID-19) Guideline for Airports

Fifth Edition

In order to prevent the spread of COVID-19 via aircraft, provide further guidance to transport airports regarding regular disease prevention and control, fix and improve disease prevention and control measures for transport airports, promote the implementation of disease containment measures for passengers during their travel, intensify public health management relating to environment, especially management of indoor spaces with various crowd densities, this Fifth Edition of the *Preventing Spread of Coronavirus Disease 2019 (COVID-19) Guideline for Airports* is developed.

1. Prevention and Control Measure for Passengers during Air Travel

1.1 In a bid to reduce personnel contact, it is encouraged to use self-service check-in through mobile phone applications, and to scan the QR code when boarding.

1.2 Passenger management should be strengthened. Passengers should be required to wear masks when they enter the terminal. Corresponding passenger traffic flow control and diversion measures as well as early alerting mechanisms should be adopted to promptly disseminate dynamic information to passengers/personnel, and to inform and guide them to maintain a social distance over one meter to prevent massive concentration. When the density of passengers in the waiting hall is too high, they should be diverted in a timely manner. Please refer to Attachment 1 for specific traffic flow control measures with different crowd densities. The number of people in the elevators should be limited to avoid crowding in the confined spaces.

1.3 The process of baggage-claim should be optimized to enhance its speed and avoid long-time waiting. Posts and floor markings should be set up in the waiting area of baggage-claim to keep passengers standing with over one meter between each other and avoid crowding.

1.4 Calibrated non-contact thermometers should be equipped at proper places of terminals, and all arriving and departing passengers should have their body temperatures measured. Quarantine areas for feverish passengers should be set up. Once feverish passengers are found, they should be required to record personal information and their



means of contact immediately. Medical departments of airports should be notified in a prompt manner for quarantine. Local health departments should also be informed, and supports should be provided for the take-over of the passengers concerned.

1.5 Passengers should be provided with necessary hand sanitizers and disinfection products in the terminals.

1.6 Flights carrying passengers with suspicious symptoms should be parked in remote stands, and special passages for passengers should be set up.

2. Prevention and Control Measures for Security Inspection Personnel, Health Care Workers, Ground Cleaning Staff and Personnel Working at Check-in Counters

Different types of prevention and control measures are adopted for different personnel, and please refer to Attachment 2 for details. Attention should be paid to the following points:

2.1 The mask should be close to the face, covering the nose and mouth completely. When the mask is on or being removed, hands must not touch the out layer of the mask to avoid hands contamination. Once dampened by secretions or contaminated by other contaminants, facial masks must be replaced immediately with new ones, and hands should be cleaned with sanitizer both before and after the replacement.

2.2 All disposable protective equipment, after their use, should be placed in yellow medical waste bags. After the flight, they should be sprayed or sprinkled till fully soaked with chlorine-based disinfectant (500mg/L-1000mg/L) before cleaning, and then the yellow medical waste bags should be tightly knotted for centralized disposal as medical wastes.

2.3 Alcohol-based disinfection wipes or instant hand sanitizer should be used for hand cleaning and disinfection. Hands shall be kept away from nose, mouth and eyes when it is not sure whether they are clean or not. When sneezing or coughing, one should try to lower the head or turn away from people nearby, and cover the mouth and nose with tissue or flexed elbow. After touching or disposing contaminated articles, hands should be cleaned with soap or hand sanitizer under running water followed by hand disinfection.

2.4 Reusable goggles should be sterilized and dried every time after use. Goggles with an anti-fogging film should avoid being wiped with disinfectant. Instead, it is recommended that they be washed with clean water, and then exposed to close-range direct ultraviolet lighting for over 30 minutes in rooms with no person inside.



2.5 For personnel working at document verification and body searching posts, their work uniforms should be subject to centralized high-temperature steam disinfection for 20 to 40 minutes or soaked in 500mg/L chlorine-based disinfectant for 30 minutes before regular washing when they are off duty for the day. 75% alcohol can be applied to wipe or spray clothes in case of emergency.

3. Airport Ventilation

The management of air-conditioning systems and natural ventilation in public places such as terminals should be enhanced. Practical measures can be taken according to the structure and layout of terminals as well as local climate to improve air circulation. If the temperature is agreeable, doors and windows can be opened; where air-conditioning systems are used, full fresh air operation mode can be started as appropriate, and exhaust system should be turned on to keep the air clean. When the indoor temperature cannot meet the requirements, the air supply volume can be reduced. When the flow of people is large, the fresh air and exhaust system of the air conditioning system should continue to operate for a period of time after the end of the flight every day.

When the density of passengers in the waiting hall is too high, the ventilation efficiency should be increased. In addition, the ventilation efficiency shall be adjusted according to the indoor crowd density at airports. Please refer to Attachment 1 for details.

4. Hygiene Requirements for Ferry Buses

For disinfection methods and selection of disinfectant for ferry buses, please refer to the *Technical Guidance for the Disinfection Operation of Public Transport Vehicles*.

If conditions permit, ferry buses can operate at a low speed with windows open to maintain natural ventilation. By increasing the frequency of ferry buses, it can be ensured to the greatest extent possible that passengers could stand with at least one meter between each other and avoid crowding. Preventative disinfection needs to be performed after the daily operation, during which frequently touched surfaces such as hanging straps, handrails and seats should be the focuses and be wiped or sprayed with disinfectant. Tires do not need to be disinfected. If a ferry bus has carried passengers with suspicious symptoms, it should be subject to terminal disinfection by professionals.

5. Hygiene Requirements for Security Inspection Areas



The management of air-conditioning systems and natural ventilation in security inspection areas should be enhanced to keep the air clean, and civil aviation security inspection aisles should be equipped with relevant facilities to enhance ventilation. Cleaning and disinfection should be conducted on a regularly basis every day, and the frequency of disinfection should be adjusted according to the flow of people. After the daily operation, areas and facilities such as security inspection sites and waste bins should be wet-cleaned, and all-round disinfection needs to be performed to keep the environment clean. Key areas (document verification counters, baggage packing areas, baggage plates, hand-held metal detectors) and security screening facilities should be disinfected, and hand sanitizers should be provided in screening aisles.

6. Wastes Disposal

The management of wastes sorting and the collection of used masks should be enhanced so that wastes could be cleaned in time. The cleaning of wastes containers such as trash cans should be strengthened, and disinfection of trash cans should be performed after garbage collection, either by spraying or wiping with 250mg/L to 500mg/L chlorine-based disinfectant. When potentially contaminated wastes are found, the wastes should be disposed of as medical wastes in a centralized way.

7. Disinfection of Airport Public Areas

Disinfection of airport public areas should refer to the *Guidelines for Prevention of Novel Coronavirus Infection in Public Places*, *Guidance to Disinfection Techniques in Public Places*, and *Guidance for the Use of Disinfectants*.

It is recommended that airports shall carry out preventative cleaning and disinfection as needed, and disinfection of key crowded areas shall be carried out at least twice a day. In addition, when personnel flow at indoor places of the airport is large, the disinfection frequency of frequently-touch objects should be increased. Please refer to Attachment 1 for details.

7.1 Daily Preventative Cleaning and Disinfection

Preventative cleaning and disinfection of airport public areas should be conducted.

7.1.1 Air disinfection: use natural ventilation where conditions allow. Air conditioning ventilation system should be cleaned and disinfected on a regular basis. 250mg/L to



500mg/L chlorine-based disinfectant or 250mg/L chlorine dioxide spray could be sprayed or wiped for reaction of 10 to 30 minutes.

7.1.2 Surface disinfection: crowded places and frequently-touch surfaces (such as self-check-in or check-in counters, document verification counters, buttons in elevators, and handrails) should be the focuses. 250mg/L to 500mg/L chlorine-based disinfectant or 250mg/L chlorine dioxide spray could be used together when wiping, and water shall be applied for cleaning after 30 minutes of reaction.

7.2 Terminal Disinfection

When suspected or confirmed cases or passengers with suspicious symptoms are found in airports, terminal disinfection should be performed by professionals. The procedures of terminal disinfection shall follow the Appendix A of the *General Principle on Disinfection for Infectious Focus* (GB19193-2015). On-site disinfection personnel should ensure their personal protection when preparing and using chemical disinfectants. It is recommended to choose one of the following methods:

7.2.1 Hydrogen peroxide vapor (gas) sterilization devices can be used for integrated disinfection of the air, the environment and surface of objects. The specific operation can be performed according to the equipment instruction manual.

7.2.2 0.5% peroxyacetic acid, 3% hydrogen peroxide, or 500mg/L chlorine dioxide can be adopted for air disinfection, by way of aerosol spray, with 10-20ml/m³. Windows should be closed before disinfection, and the surface and the space shall be evenly sprayed, starting from up-down, and then from left to right. Windows can be opened for ventilation after 60 minutes of reaction. After spray disinfection, the surface of objects may be wiped (swept) in the way of daily disinfection.

7.2.3 For key passenger areas, 500mg/L to 1000mg/L chlorine-based disinfectant can be applied by spraying or wiping for reaction of more than 30 minutes. If there are contaminated body fluids such as vomit and blood, 10000mg/L chlorine-based disinfectant shall be applied for over 30 minutes before removing the contaminated body fluids, and then the area should be cleaned and disinfected.

8. Handling Procedures of Flights from Countries Severely Impacted by COVID-19 or Flights with Passengers with Suspicious Symptoms

Dedicated parking apron shall be set up for such flights, or remote stands should be used.



After landing, the following procedures should be followed:

8.1 Disembarking passengers are required to wear surgical masks or masks of higher standards. Accompanying airport staff should wear surgical masks or masks of higher standards, and disposable rubber gloves.

8.2 The airport should coordinate with local customs to set up a special waiting area, and provide passengers with basic daily necessities such as food. After passengers' departure, preventative disinfection shall be performed in the quarantine waiting area.

8.3 A separate baggage carousel should be designated at baggage-claim area to avoid crowding with other flight passengers and reduce the chance of cross infection.

9. Considerations Regarding Psychological Self-regulation for Front-line Personnel of Airports

As the epidemic situation is gradually getting better, prevention and control activities have been normalized among airports. However, front-line employees are still under pressure as they have to support flight operation and practice self-protection. Therefore, continued effort should be made in providing humanistic care and psychological counseling for employees, to calm down negative emotions in time.

10. Proper Use of Personal Protective Equipment

In order to provide guidance to front-line staff in civil aviation on how to correctly wear masks, hats, gloves, goggles and other protective equipment, and properly sanitize hands, our Office made a video, downloadable from the website ams.caac.gov.cn under Prevention and Control of Public Health Emergency.



Attachment 1

Protection and Control Recommendation on Airport Indoor Spaces with Various Crowd Densities

Crowd Density (person/100m²)	Disinfection Frequency of Frequently-touch Surface (time/H)	Ventilation Measures	Personnel Flow Control Measures
≤50	1 time/4H	Maintain good ventilation	None
50-100	1 time /3H	Increase ventilation efficiency	Moderately control personnel entry
100-150	1 time /2H	Further increase the ventilation efficiency	Using the broadcast to inform that the number of people in the room is close to the upper limit, and limit passenger entry
≥150	1 time /H	Ventilation with maximum efficiency	Stop personnel entry



Attachment 2

Personnel Type	Surgical Mask	Medical Protective Mask	Goggle/ Face Screen	Disposable Protective Suit	Disposable Medical Rubber Gloves	Disposable Shoe Covers	Disposable Medical Cap
Personnel working at check-in counters	√				√		
Ground cleaning personnel	√				√		
Security inspection personnel	√		√		√		√
Health care workers at airports	√		√		√		√
Emergency handling personnel		√	√	√	√	√	√

Personal Protection Reference for Security Inspection Personnel, Health Care Workers, Cleaning Personnel, and Personnel Working at Check-in Counters