Guidelines for Investigation and Management of Close Contacts of COVID-19 Cases Training Kit from Chinese Center for Disease Control and Prevention

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中国疾病预防控制中心 CHINESE CENTER FOR DISEASE CONTROL AND PREVENTION

Guidelines for Investigation and Management of Close Contacts of COVID-19 Cases

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Citation

• Chinese Center for Disease Control and Prevention. Guideline for Investigation

and Management of Close Contacts of COVID-19 Cases

- Prevention and Control Plan of COVID-19 (the 6th edition)
- Prevention and Control Plan of COVID-19 (the 5th edition)



Contents

- Purpose
- Principles of Investigation and Identification
- Contact Management
- Information Reporting Requirements
- Data Analysis and Use



Purpose

•Identify and manage close contacts in a timely manner to prevent further spread of the disease.

•Develop a more clear understanding of risk of infection and risk factors during various types of human contact.





Principles of Investigation and Identification (1)

Contacts

Close Contacts

General Contacts

• "Contacts" include anyone who may have had contact with a case through a range of circumstances or activities including being family members, relatives, friends, colleagues, classmates, health care workers, and services personnel. Contacts can be classified as close contacts or general contacts based on the level of contact.

• Close contacts are individuals who have had contact, without effective protection, with one or more suspected or confirmed COVID-19 cases any time starting 2 days before onset of the suspected or confirmed cases' symptoms or 2 days before sampling for laboratory testing of asymptomatic infected persons.

• General contacts include anyone who has had contact with suspected cases, confirmed cases, and asymptomatic infected persons, but who do not meet the criteria for being a close contact while taking the same transportation vehicle (airplane, train, ship), or living, studying, or working together, or having less than close contact during diagnostic and treatment procedures.



Principles of Investigation and Identification(2)

Specific types of close contacts are:



Family members living together



Direct caregivers or providers of medical treatment and care services



Healthcare workers who perform diagnostic and treatment activities that emit aerosols



Persons who have had close contact in an office, factory, workshop, elevator, canteen or cafeteria, classroom, or other similar location



Persons sharing meals, entertaining, and providing catering and entertainment services in a closed environment



Healthcare workers and family members visiting infected patients or other people in close contact with COVID-19 cases



People who take the same transportation and have close contact with a COVID-19 case or an asymptomatic infected person (See Appendix S1 for criteria for identifying close contacts on different types of transportation and vehicles)



Other persons assessed by onsite investigators meeting the criteria for close contact



Contacts Management-Management Approach for Close Contacts(1)

- The local health departments shall, together with the relevant departments, organize and carry out the medical observation of close contacts.
- For those who refuse to do so, compulsory quarantine measures may be taken with the assistance of the local public security institutions.

General Population	 Centralized management with medical observation should be applied for close contacts management; However, carefully-managed household isolation may be used when conditions do not permit centralized management.
Children 14 years and younger	 Parents and family members are all close contacts, centralized management with medical observation is the preferred management method. If only the child is close contact, household management with medical observation can be used under guidance, and family members can live with the child with protection and distancing.
Closes contacts who may not have the ability to perform self-care activities	 In principle, centralized isolation medical observation measures should be implemented, and nursing care should be carried out by designated personnel. If this cannot be carried out, home isolation medical observation can be taken under the guidance of community medical staff.
People	with underlying diseases and the elderly can not

serve as caregivers.



Contacts Management-Management Approach for General Contacts(2)

General contacts should be registered and informed of their health risk as a general contact. They should be told that if they develop respiratory symptoms such as fever or dry cough or gastrointestinal symptoms such as diarrhea, they should immediately seek medical advice and provide history of their recent activities to the doctor or other healthcare professional.

****	Contact Management-Management
	Procedure
THADA DISEASE CONTROL NO	•The reason for the observation; the timeline; legal basis; matters needing attention; and disease-related knowledge
Informed notification	•medical institution that is responsible for observation and the person and contact information of institution official. Fill Table S3.
	• monitor the temperature of close contacts every morning and evening, and ask their health conditons.
Health monitoring	• Fill Table S4, S5 and S6
Observation	 Last until 14 days after the last contact without effective protection with a confirmed case or an asymptomatic infected person If the close contacts are tested negative during the medical observation period, they must be isolated till the end of the
period Management of abnormal	 observation period If a close contact has any symptoms of fever, dry cough, and other respiratory symptoms, they must immediately be reported and transported to the designated medical institution for diagnosis, treatment, and specimen collection for laboratory testing and investigation. If they are found to be a suspected or confirmed case, their close contacts should be investigated and medically a suspected or confirmed case.
symptoms Release from isolation	 When the required medical observation period ends, if the close contact has had no abnormal symptoms, he or she should be released from medical observation in time. If a suspected case is determined to not be a COVID-19 case or asymptomatically-infected, his or her close contacts should be released from medical observation.



Contact Management-Management Rules

Medical observation sites

- Cleaned
- Disinfeacted
- Meet the requirements of the selection of centralized medical observation sites and internal facilities
 - (Appendix S2)

Close contacts

- Live alone
- Minimize contact
- Not allowed to go outside
- If they must go outside, they should do so only with approval of the medical observation management staff; they must wear surgical masks and avoid going to crowded places while outside.

Staff performing medical observation

• Use effective personal protection practices for respiratory droplets and contact transmission.

Information Reporting Requirements (1)

Letter from the Chinese Center for Disease Control and Prevention on the Initiation of Medical Observation and Health Surveillance Information Report on Close Contacts of COVID-19 cases (China CDCInfectious Disease Management Office [2020] NO.177)

Overall System

- •. Local areas are encouraged to report relevant information through the online reporting module.
- After a close contact is released from medical observation, summarize and update the health status of the close contact during medical observation based on the Health Status Monitoring Case Form for Close Contacts

Guarante quality audit

Established System

- The original system can be continually used
- Encourage the use of national close contacts medical observation and health monitoring information system interface to improve data

Released Cases

 In principle, the relevant information of released cases does not require supplementary reporting through the network reporting system.

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Information Reporting Requirements (2

Report Contents

Information Connection

The recording of "the worst clinical outcome of the case" must be consistent with the information reported in the Infectious Disease Information Reporting and Management System.

The report card for Disease Information Reporting and Management System

When register

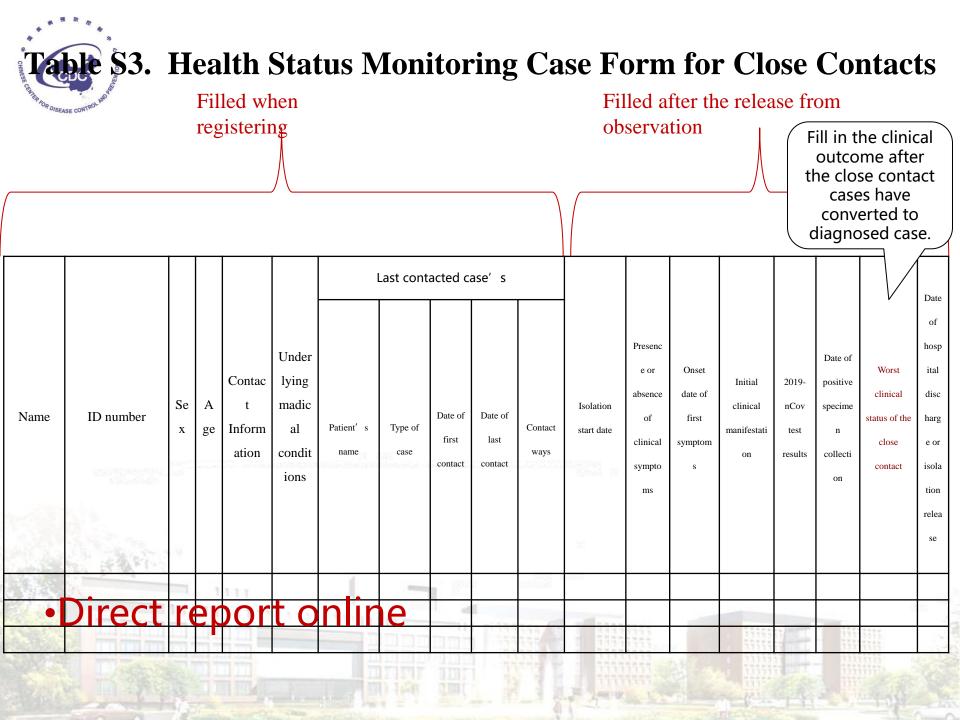
After released from observation

Basic information (e.g., name, ID number, sex, age, contact information)

information about contacted case (e.g times of contact)

Health monitoring information (the starting date of isolation, initial clinical manifestations)

Online Report Module Health Status Monitoring Case Form for Close Contacts (Supplementary Table S3)





Data Analysis and Use

- Analysis the secondary attack rate of COVID-19 infection among close contacts
 - close contacts in key places such as homes and hospitals and places varying by their characteristics
- Analysis the proportion of different clinical severity of COVID-19 cases diagnosed in close contacts
- Estimate the 2019-nCoV incubation period based on the first and last contact time of the close contact with the case, and the onset of close contacts' illnesses.



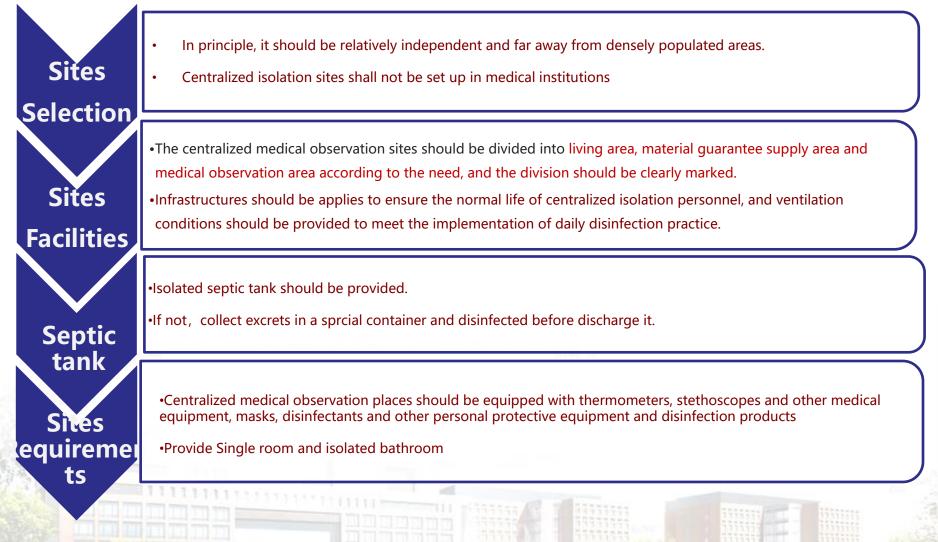
Appendix and Supplementary Tables

- Appendix S1-Criteria for identifying close contacts on different types of transportation and vehicles
- Appendix S2-Requirements of selection of centralized medical observation sites and internal facilities. -four
- Case forms
 - Health Status Monitoring Case Form for Close Contacts (online report)
 - Registration Form for Medical Observation of Close Contacts
- Information Summary Tables
 - Daily Report Form for Medical Observation of Close Contacts
 - Daily Summary Form for Medical Observations of Close Contacts

CCDCC NOTICE AND	Appendix S1-Criteria for identifying close contacts on different types of transportation and vehicles
Plane	 In general, all passengers in the same row with and three rows in front and rear the case seats, as well as crew members providing cabin services in the above-mentioned areas are close contacts. Other passengers on the same flight are general contacts.
Railway	 Fully enclosed air-conditioned train, all passengers and crew of the hard seat, hard berth or soft berth in the same compartment where the case is located. Non-closed ordinary trains, passengers in soft sleeper compartments in the same room, or passengers in the same hard seat (hard berth) compartment and adjacent compartments, as well as attendants serving the area.
Automobile	 Fully sealed air-conditioned bus, all personnel in the same car with the case. A ventilated ordinary bus, passengers and passengers with three rows of seats in front and rear of the case.
Ship	•All passengers in the same compartment as the case and the crew providing services to the compartment.

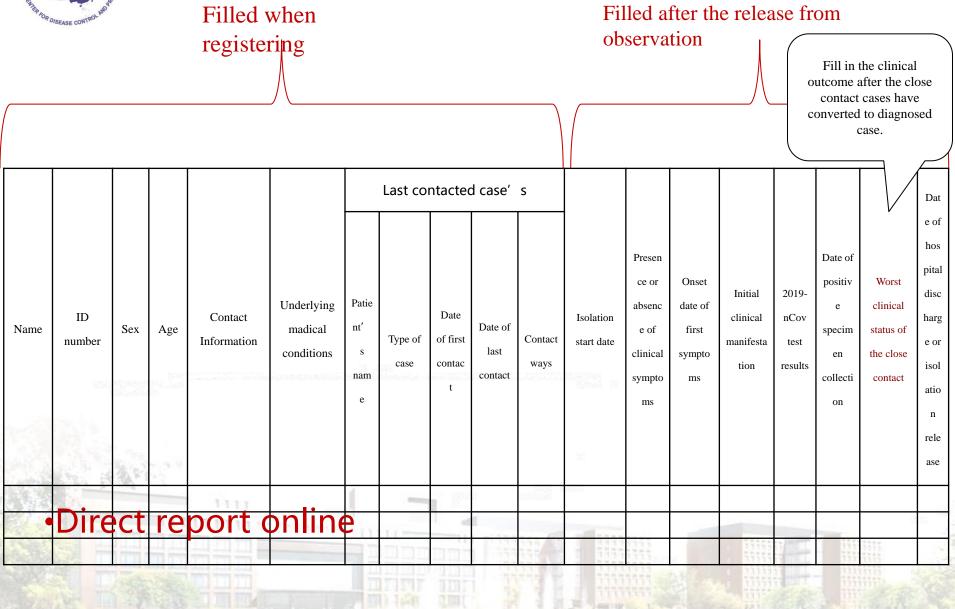


Appendix S2-Requirements of selection of centralized medical observation sites and internal facilities





Appendix S3-Health Status Monitoring Case Form for Close Contacts





Appendix S4-Registration Form for Medical Observation of Close Contacts

		□suspec	ted □clin	ical □cor	firmed □asym	otom	tomatic Name of the Patient: Phone number:								r:		Onset date of the diseaser″ √″ Or "								' ×	"							
																	С	linica	al ma	anifestation													
Serial no.	Close contact' sname	Sex	Age	Current	Start date of observation					В	ody t	emp	erati	ure(°	°C)	7				Body 3 4 5 6 7 8 9 10 11 12 13 14 re Image: second													
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Note: 1. This table is intended for use by the healthcare workers performing medical observation on the close contacts of COVID-19 cases and asymptomatic infected person.

2.Under "clinical manifestation," fill in the actual temperature in Celsius for "Body temperature." Please tick √ if any of the following symptoms appear, otherwise tick "×": chills, sputum, stuffy nose, runny nose, sore throat, headache, fatigue, muscle soreness and aches, joint soreness and aches, shortness of breath, dyspnea, chest tightness, conjunctival congestion, nausea, vomiting, diarrhea, abdominal pain, and other symptoms.

Entered by (organization): _____ Entered by (individual): _____ Date of entry: ___mm___dd__yy



Appendix S5-Daily Report Form for Medical Observation of Close Contacts

Sub-district/community or		Total number of	Number o	sons who a obse of persons ed for the ay	rvation Numb	er medical er of persons released	Number of pers clinical mar		Number of pe with COVID	come infected ymptomatic	Date the last close contact is expected to be		
household	the first close contact	persons observed		Number New		Total	New additions of the day	Total	COVID-19 cases	Asympt- omatic Total infected persons		released from observation	
Total													

Note: 1. This table is intended for aggregate submission by healthcare workers performing medical observation on close contacts of COVID-19 cases and asymptomatic infected person. 2. Clinical manifestations include: chills, sputum, stuffy nose, runny nose, sore throat, headache, fatigue, muscle soreness and aches, joint soreness and aches, shortness of breath, dyspnea, chest tightness, conjunctival congestion, nausea, vomiting, diarrhea, abdominal pain, and other symptoms.

3. All "total" entries in the table refer to aggregate numbers since the start of medical observation of the close contacts

The cumulative figures involved in the table refer to the total number since the medical observation of close contacts was carried out.

Appendix S6-Daily Summary Form for Medical Observations of Close **Contacts**

The area under the jurisdiction of the Centers for Disease Control and

Pre	Prevention			Mdical of	oserver			f people with nal clinical	Number	The expected		
	Date of the onset of	Cumulative		of people on the day	Releas	ed number		Testations	asym	The expected date of the last		
Jurisdiction	observation of the first case	number of observers	Total number	added date		Cumulative number	Newly added Cumulative number number		Cases	Asympt omatic infected patients	Cumulative number	close contact is released from medical observation
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and a												
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- This table can be used for statistics and summary of municipal and district-level centers for disease control and prevention
- Abnormal clinical manifestations: fever, cough, shortness of breath and other symptoms.
- The cumulative figures involved in the table refer to the total number since the medical observation of close contacts was carried out.

Comparison between the fifth edition and the sixth edition of Close Contact Management (1)

WEASE LAN			
Framework Title	Contents Title Adjustment	The 5th edition Close Contacts of COVID-19 Cases Management Plan	The 6th edition Guidelines for Investigation and Management of Close Contacts of COVID- 19 Cases
Content Framework	Content Adjustment	 Determination Principle Management Requirement Contacts Management Measures during medical observation Centralized medical observation place Information Report 	 Purpose Principles of Investigation and Identification Contact Management Information Reporting Requirements Data Analysis and Use
Exclusion of close contacts of suspected cases	Added Content	None	After the suspected cases are excluded, those who are in close contact with them can be relieved of medical observation
Concept of contact cases	Added Content	None	Yes
Refined Close Contact Management	Added Content	None	Add medical observation and guidance for children under 14 years old and disabled and semi-disabled people

Comparison between the fifth edition and the sixth edition of close contact management (2)

The Polysens Framework	Contents	The 5th Edition	The 6th Edition				
Concept of Close Contacts	Content Revisement	Close contacts refer to persons who are in close contact with them (within 1 meter) from 2 days before the symptoms of suspected and confirmed cases, or 2 days before the samples of asymptomatic infections are collected.	•Delets ' within 1 meter' •The rest of contents consist with the fifth edition				
Appendix S2	Content Revisement	Appendix2: Registration Form for Close Contacts of COVID-19	 Revised as Appendix S3-Health Status Monitoring Case Form for Close Contacts Close health monitoring variables have been added to the table Consist with the Guidelines 				
Information Report	Consistant	Encourage districts and counties to adopt direct online reporting system	• Appendix S3-Health Status Monitoring Case Form for Close Contacts should be reported online directly				
Appendix	Content Adjustification	5 Appendixes	 •6 Appendixes •Requirements of selection of centralized medical observation sites and internal facilities serves as appendix 2 				

TECHNICAL NOTE

Guided by the evolving understanding of COVID-19 and the progress scored by the epidemic control programme, these guidelines will be continuously updated and improved, so as to fulfil our mandate of better protecting the lives and physical wellbeing of the public.