

Annex 4: Isolation and Quarantine

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I. **Purpose:** Isolation and quarantine orders generated during a public health emergency are generated by legal and ethical standards. In a country founded upon the principals of individual civil rights, restrictions imposed upon individuals or populations on behalf of public health must be well justified and documented. Public awareness of the risks inherent in an infectious disease outbreak and knowledge of the factors considered in making decisions on behalf of the public are critical to maintaining credibility when isolation and quarantine orders are deployed.

II. **Responsibility and Authority**

A. California Department of Public Health

1. CDPH has the legal authority to isolate/quarantine (Health and Safety [H&S] Code Section 120130, 120145).
2. CDPH has the authority to order local health departments to issue isolation/quarantine orders (H&S Code Section 100180, 101030, 120140, 120195, 120210).
3. Consultations with CDPH CDCD on-call duty officers from the Health Officer will assist with the determination of when such orders and/or measures are deemed necessary and appropriate in specific epidemiologic settings.

B. Tuolumne County Public Health Department

1. Specific monitoring, isolation, and quarantine procedures will be determined by CDC and CDPH guidelines when available.

C. Roles and Responsibilities

Table 1

Role	Responsibility
Public Health Officer	<ol style="list-style-type: none"> 1. California Health and Safety Code Section 120130 authorizes a health officer to require isolation (strict or modified) or quarantine for any case of contagious, infectious, or communicable disease when this action is necessary for the protection of the public health. 2. H&S Code Section 120205 provides that a local health officer has the authority to establish quarantine against another city or county but only with the consent of CDPH. 3. California Health and Safety Code Section 120220 requires all persons to obey the rules, orders, and regulations of a health officer for the establishment of quarantine or isolation. 4. The general authority of the health officer to take measures necessary to prevent the spread of disease would in proper circumstances be sufficient to suspend public gatherings or close facilities. 5. The Health Officer must enforce and observe orders and ordinances of the Tuolumne County Board of Supervisors or the Sonora City Council under Health and Safety Code §101470, CDPH Orders, and state statutes and regulations relating to public health. 6. California Health and Safety Code Sections 101025 and 101030 establish the authority of county Health Officers to preserve and protect the public health by enforcing county orders, ordinances, and statutes pertaining to public health. 7. California Health and Safety Code Sections 101375, 101400, 101405, 101450, and 101460 establish authority of cities to consent or contract with the county to provide performance of public health functions and statute enforcement. In

Role	Responsibility
	<p>the absence of consents or contracts with the county, authorizes cities to appoint a health officer to enforce and observe all orders, ordinances, quarantines, regulations, and statutes relating to public health.</p> <ol style="list-style-type: none"> 8. California Health and Safety Code Section 120175 requires any health officer having reason to believe that any case of any contagious, infectious or communicable disease exists within his or her jurisdiction to take measures as may be necessary to prevent the spread of the disease. 9. Each health officer, whenever required by CDPH, shall establish and maintain places of quarantine and isolation that shall be subject to the special directions of the CDPH (H&S Code Section 120200). 10. H&S Code Section 120140 gives CDPH the power to take possession or control of the body of any living person or the corpse of any deceased persons to prevent the spread of a disease. 11. H&S Code Section 120150 gives CDPH the authority to destroy objects or animals when ordinary means of disinfection are considered unsafe and when the property is in its judgment, an imminent menace to the public health. 12. H&S Code Section 120210 gives CDPH the authority to order local health officers to destroy property or animals when the property is in the judgment of CDPH, an imminent menace to the public health. 13. H&S Code Section 120215 requires the local health officer to ensure the adequate isolation of each case and appropriate quarantine of the contacts and premises when CDPH declares the need for strict isolation or quarantine. 14. Penal Code 409.5 provides for the health officer to close access to an area which poses an immediate menace to the public health. 15. California Health and Safety Code Section 120275 makes it a misdemeanor for any person to violate, or refuse or neglect to conform to, any rule, order, or regulation prescribed by the California Department of Public Health for the quarantine or disinfection of persons. 16. California Health and Safety Code Section 120290 makes it a misdemeanor for any person afflicted with any contagious, infectious, or communicable disease to willfully expose himself or herself to another person. It also makes it a misdemeanor for any person to willfully expose another person afflicted with the disease to someone else. 17. California Health and Safety Code Section 100182 makes it a misdemeanor for any person charged with the performance of any duty under the laws of this state relating to the preservation of the public health to willfully neglect or refuse to perform that duty. 18. Specific Health and Safety Code (H&S §§121365, 121366, 121368) applies to the Isolation and Quarantine of persons with potentially active <i>Mycobacterium tuberculosis</i> (TB) infection. Orders from the Health Officer for the Isolation and/or Quarantine of active TB patients apply to all except persons incarcerated in State correctional institutions. <ol style="list-style-type: none"> a. Forced administration of medication is not allowed. b. Detention for examination can be initiated without a court order, but a court order must be obtained within 72 hours if a person requests release. 19. Notifies TCHD management staff about potential cases or infectious disease clusters under investigation and maintains records of the investigation in the

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Tuolumne County Health Emergency Preparedness and Response Plan (HEPREP)

Role	Responsibility
	<p>TCHD Communicable Disease Log.</p> <p>20. Supervises the work of the Communicable Disease Coordinator in investigating communicable disease cases or clusters to assess the need for Isolation and/or Quarantine interventions and assists with the maintenance of investigation records.</p>
Public Health Nursing Director	<ol style="list-style-type: none"> 1. In coordination with the Health Officer, supervises the work of the Communicable Disease Coordinator in investigating communicable disease cases or clusters to assess the need for Isolation and/or Quarantine interventions and assists with the maintenance of investigation records. 2. Oversees the monitoring by Health Department staff of citizen compliance with Isolation/Quarantine (I/Q) orders generated by the Health Officer. 3. Notifies management staff about potential cases or infectious disease clusters under investigation and maintains records of the investigation in the TCHD Communicable Disease Log.
Communicable Disease Coordinator	<ol style="list-style-type: none"> 1. Investigates and gathers documentation regarding cases or infectious disease clusters which will potentially require I/Q of local citizens. 2. Notifies management staff about potential cases or infectious disease clusters under investigation and maintains records of the investigation in the TCHD Communicable Disease Log.
Public Health Nursing Staff	<ol style="list-style-type: none"> 1. Assists with the investigation of contacts and/or patients during community investigations for I/Q events.
Law Enforcement	<ol style="list-style-type: none"> 1. Provides security and enforcement for orders issued by the Health Officer under Health and Safety Code §§100182, 120275, 120155, 101029 and Penal Code §§15, 16 and 19. Criminal enforcement may require physical force to be applied to arrest a person for noncompliance in accordance with Penal Code §§ 834, 835, 836 and 836.5
County Counsel	<ol style="list-style-type: none"> 1. Civil enforcement of a Health Officer’s order may require obtaining a court order in the form of an injunction ordering the person or business to comply with the Health Officer’s order.
Airports Director	<ol style="list-style-type: none"> 1. In the event that facilities at a Tuolumne County airport are utilized as an I/Q site, the Airport Director will assist with site management and support.
Hospital Infection Prevention Specialist	<ol style="list-style-type: none"> 1. Applies Isolation and Quarantine orders issued by the Health Officer to the management of inpatients at the local hospital. 2. Coordinates the isolation and quarantine of inpatients at Sonora Regional Medical Center (SRMC) in accordance with isolation and quarantine protocols established at the local hospital facility.
Community	<ol style="list-style-type: none"> 1. Multiple community agencies will be integrated into the community response, based upon the details of the event and the pathogen, chemical or hazard involved.
Behavioral Health Dept.	<ol style="list-style-type: none"> 1. Conducts assessment of quarantined individuals for behavioral health needs 2. Deploys Crisis Intervention Team if requested by MHOAC or designee

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III. Investigation

- A. Although health officers have the power to investigate and to issue and seek enforcement of examination and testing orders, except for persons suspected to have active TB (See above), they cannot enforce orders for involuntary examination, testing or treatment without either:
 - 1. The subjects consent, or
 - 2. Obtaining a court order (17 C.C.R. §§2501 (a), 2540 (General Clause), 2574 (c) (Food Poisoning), 2622 (Trichinosis)
- B. Failing voluntary cooperation or consent to examination and/or treatment, the Health Officer may be statutorily authorized to isolate and quarantine such individuals (H&S §12021)

IV. Isolation/Quarantine Agreements

- A. In cases where the subject agrees to voluntary isolation/quarantine, an isolation or quarantine agreement may be useful.
- B. Such agreements are designed to clarify the conditions of an isolation or quarantine action for the public agency and the cooperative subject of the isolation or quarantine.
- C. Such agreements are not legally enforceable. It may be appropriate to issue isolation/quarantine orders in every instance.
 - 1. Consultations at the EOC level will include considerations for when voluntary isolation/quarantine should be supported with simultaneous isolation/quarantine orders.
 - 2. Consultations with CDPH Communicable Disease Division on-call duty officers will assist with the determination of when such orders and/or measures are deemed necessary and appropriate in specific epidemiologic settings.

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V. Isolation/Quarantine Orders: See Attachment 1: Model Orders

- A. In cases where voluntary isolation/quarantine is not feasible (e.g. where there is reason to believe the subject will not obey a request by the health officer to isolate or quarantine him/herself), a legal isolation/quarantine order may be issued by the state or local health officer.
 - 1. Local authority is invoked first. However, the state can order local jurisdictions to use their authority.
 - 2. Orders may be served by the Health Officer, authorized representatives, or by peace officers.
 - 3. Those serving the orders should follow CDC and CDPH infection control guidelines, including appropriate Personal Protective Equipment. These prescribed protections will be provided to the agents serving the order.
- B. The scale of the application of isolation and/or quarantine orders will determine the extent and limits of notification.
 - 1. An order served to a large area or group of people, such as an apartment complex quarantine order, should be posted at all entries and/or boundaries of the area.
 - 2. A large scale application, such as involving a region of the county, may require mass notification methods, such as mass telephone messaging, electronic message boards, web site postings and repeated radio alerts. See Risk Communication Plan, Appendix C.

3. Specific requirements may need to be waived in the event of a large scale application of isolation/quarantine (e.g. due process, individual notification etc...)
- C. Individual isolation or quarantine orders will be served whenever possible in order to legally notify all subjects of such an order.
 1. For cases of disease requiring strict isolation, Title 17, California Code of Regulations Section 2516 requires that the health officer give instructions to the patient and members of the household defining the area in which the patient is to be isolated and the measures to be taken to prevent the spread of the disease. It requires that certain measures be followed.
 2. For cases requiring modified isolation, title 17, California Code of Regulations, section 2516, requires the health department to issue appropriate instructions, prescribing the isolation technique to be followed. The isolation technique will depend upon the disease.
 3. Such orders will be language-appropriate to the subject of the order.
- D. Posting the order outside a home is an option available to health officials. Under Section 1798.24 (i) of the Information Practice Act, it is allowed to disclose personal information "(i) Pursuant to a determination by the agency which maintains information that compelling circumstances exist which affect the health or safety of an individual, if upon the disclosure notification is transmitted to the individual to whom the information pertains at his or her last known address." In certain circumstances, posting on the door of a home would accomplish both.
 1. Posting on the inside of the house, on the door where the subject is being isolated would also meet the notification needs, if this can be done.
 2. Once an isolation or quarantine order is issued, persons violating the order may be subject to arrest and prosecution for violating the order. Peace officers may be utilized to enforce such orders.
 3. Violation is a misdemeanor (H&S Code Section 120275)
- F. Due process protections are followed:
 1. Persons will be provided adequate notice, a clear record of the basis for the decision to isolate or quarantine, and an opportunity to be heard through an administrative hearing.
 2. Subjects have the right to seek counsel. California Penal Code Section 1473 allows every person unlawfully imprisoned or restrained of his liberty, under any pretense whatever, may prosecute a writ of habeas corpus, to inquire into the cause of such imprisonment or restraint. The order shall notify the subject of this right.
 3. If criminal charges are filed, the individual may be entitled to representation at public expense. If the person is held in civil detention, and seeks a writ of habeas corpus, it is up to the individual seeking judicial relief from the order to secure legal counsel and bear the cost of litigation.

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VI. Isolation/Quarantine Implementation

- A. California Health and Safety Code Section 120135 establishes that the department may establish and maintain places of quarantine or isolation.
- B. Monitoring for compliance may be accomplished by wrist monitors, nursing visits, phone monitoring, or other telehealth strategies (e.g. Skype monitoring).
- C. Isolation Management

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1. If potential infected individuals become symptomatic, care will be provided by private providers, family caregivers, or Home Care agencies. Assistance with the personal protective equipment (PPE) needs may be addressed through the TCHD Department Operations Center (DOC).
 2. If the area medical resources are at and/or beyond capacity to manage quarantined patients, an Isolation Alternate Treatment Site would be assessed for by the TCHD and the Emergency Operations Center (EOC) command staff. Staffing an Alternate Care Site may include activation of Mutual Aid agreements and mobilization of Disaster Healthcare Volunteers.
- D. For in-hospital isolation, the expense of the hospitalization is borne by the public or private health insurance coverage of the individual. Quarantine will rarely occur in the hospital setting.
- E. In extreme circumstances, jails can be used for isolation or quarantine, except for cases involving tuberculosis.
1. Alternate Sites which may be appropriate to use for isolation/quarantine for individuals in special circumstances (e.g. homeless, etc...) are identified in the POD/Alternate Sites Mapping and Selection Resource document. Tuolumne County Health Department will, to the extent possible, assist persons with access to necessities during the quarantine period. A contact number for a Liaison person within the Health Department will be provided to quarantined individuals. Considerations for individual patients may include evaluations for the following essential services:
 - a. Shelter
 - b. Caregivers
 - c. Food and meal preparation
 - d. Medications
 - e. Childcare
 - f. Essential shopping
 - g. Social diversion (e.g. television, radio, reading materials etc...)
 - h. Work or school arrangements
 - i. Pet care
 - j. Clothes and laundry services
 - k. Banking and bill paying
 - l. Faith/clergy support
 - m. Communication
 - n. Water
 - o. Electricity
 - p. Behavioral health issues
 - q. Special population needs (e.g. language, disability, elderly etc...)
 - r. Heating/cooling needs
 - s. Refuse disposal
 - t. Transportation
 - u. PPE and hygiene products
 - v. Legal support
 2. If it can be demonstrated that a situation requires the health officer to commandeer a private facility in order to prevent the spread of disease, this action can be authorized under the health officer's general authority. Such

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action may be considered a “preventive measure” under H&S Code Section 101040 & 101475, which provides:

- a. “The county health officer may take any preventive measure that may be necessary to protect and preserve the public health from any public health hazard during any "state of war emergency," "state of emergency," or "local emergency," as defined by Section 8558 of the Government Code, within his or her jurisdiction. "Preventive measure" means abatement, correction, removal or any other protective step that may be taken against any public health hazard that is caused by a disaster and affects the public health. Funds for these measures may be allowed pursuant to Sections 29127 to 29131, inclusive, and 53021 to 53023, inclusive, of the Government Code and from any other money appropriated by a county board of supervisors or a city governing body to carry out the purposes of this section. The county health officer, upon consent of the county board of supervisors or a city governing body, may certify any public health hazard resulting from any disaster condition if certification is required for any federal or state disaster relief program.”
 - b. The power to commandeer is expressly given only to the Governor during a state of emergency or state of war.
- D. The declaration of a local health emergency by the health officer is authorized by H&S Code Section 101080. Such a local health emergency declaration must be ratified by the Board of Supervisors in order to remain in place for a period longer than seven days.
1. An emergency declaration by the Governor’s Office with input from CDPH and DHCS is reserved for instances when additional resources, such as mutual aid, are needed.

VII. Termination of Isolation/Quarantine Orders

- A. The duration and date of release of an isolation or quarantine order is included with the original order.
- B. Termination of an isolation or quarantine order should be accomplished by the same authority from which the original order originated.

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Attachment 1: MODEL STRICT OR MODIFIED ISOLATION ORDER *

1) Pursuant to sections 120130 and 120175 of the California Health and Safety Code, the Health Officer of Tuolumne County **HEREBY ORDERS** that the following person:

(Name of person subject to isolation.)

hereinafter referred to as the patient, shall be isolated under the conditions specified in this order until _____, or until this order is rescinded, whichever occurs first.

(Date)

Violation of or failure to comply with this order may result in civil detention, and is a misdemeanor punishable by imprisonment, fine, or both.

2) This order is issued because the patient has been diagnosed as a case or suspected case of _____.

3) The patient shall be isolated at the following location:

(Street address where patient is to be isolated.)

4) If the patient is hospitalized, infection control practices appropriate for cases as identified in paragraph 2 of this order shall be implemented by the hospital. The patient shall not be moved from isolation or to a new isolation location without approval of the local health officer.

5) If the patient is not hospitalized, a copy of the notice attached to this order shall be prominently posted at the entrance(s) to the room(s) where the patient is confined, and the conditions of isolation shall be as follows (only checked items and written instructions shall apply): *

___ The patient shall have a separate bed in a room protected against flies.

___ All persons, except those caring for the patient, shall be excluded from the sick room.

___ The persons caring for the patient shall avoid coming in contact with any other persons within the household or elsewhere until every precaution has been taken to prevent the spread of infectious material from the patient's room. Please refer to this order and attachments for appropriate precautions.

___ The persons caring for the patient shall wear a washable outer garment and shall thoroughly wash their hands with soap and hot water after handling the patient or any object he may have contaminated. Upon leaving the room in which the patient is isolated, the attendant shall take off the washable outer garment and hang it in the room until disinfected.

___ All discharges from the nose and mouth shall be burned or disinfected. The discharges should be received in pieces of soft tissue or cloth and dropped into a paper bag which can be burned or disposed as Biohazardous Waste as instructed by the health department.

___ Objects which may have been contaminated by the patient shall not be shared between the patient and other household members and shall be thoroughly cleansed before being removed from the contaminated area.

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___ The feces and urine of the patient shall be disposed of according to the following instructions:

___ Additional conditions and instructions: ___ Attachment A - Instructions for Airborne or Droplet Transmission
___ Attachment B - Instructions for Contact Transmission

6) The patient or the patient’s authorized lawful representative may contact the following representative of the Tuolumne County health department to seek clarification of any part of this order. If the patient or his/her authorized lawful representative believe that the patient is not a case or suspected case as described in paragraph 2 of this order, or object to the appropriateness of the conditions of isolation contained in this order, the patient or his/her lawful authorized representative may object and/or request an informal hearing by contacting the person indicated below.

(Name of Tuolumne County Health Department contact person)

(Daytime telephone)

7) The patient or the patient’s authorized lawful representative may seek judicial relief from this order pursuant to California Penal Code Section 1473.

IT IS SO ORDERED.

(Signature of authorized Tuolumne County Health Officer)

(Date of Issuance of Order)

This order served in person:

By _____

(Date served)

* Note that the specific conditions listed in item (5), the first seven check-offs are required by Title 17 CCR Section 2516 for *strict isolation* only. Since this model form is a template that could be used either for *strict* or *modified* isolation, these conditions could be removed (or simply not checked) if they are not applicable when a local health department adapts this form for local *modified* isolation. Also, please be sure to delete this note, change the Title (to indicate if the order is for *strict* or *modified* isolation, and to remove the word “*Model*”), and you may need to make other changes, deletions, or additions to this Model Order that you deem appropriate for your local situation and the disease under isolation.

Attachment 1.A
Additional Instructions for
Cases Involving Airborne or Droplet Transmission

- ___ The patient shall wear a surgical mask when in the same room as any person not subject to isolation. The patient shall cover his/her nose and mouth with a disposable tissue when coughing or sneezing. Used tissues shall be placed in a paper or plastic bag for disposal. If used tissues are required by this order to be burned, only paper bags shall be used.

- ___ The persons caring for the patient shall thoroughly wash their hands with soap and hot water after handling the patient or any object the patient may have contaminated. The use of disposable gloves is recommended for persons caring for the patient; however, immediately after using gloves for any direct contact with body fluids, gloves should be removed and discarded and hands should be washed. Gloves shall not be washed or reused.

- ___ Persons caring for the patient shall wear surgical masks when in the same room as the patient, unless the patient is wearing a surgical mask.

- ___ Persons caring for the patient shall wear eye and face protection in any situation where there is a chance for exposure to droplets or splashing of body fluids.

- ___ Objects, such as eating and drinking utensils, clothing, towels, and bedding used by the patient shall be washed with soap or detergent and hot or warm water before being used by any other person.

- ___ Environmental surfaces in rooms used by the patient shall be cleaned and disinfected once each day and when soiled with respiratory secretions, blood or other body fluids of the patient. It is recommended that the person performing the cleaning wear gloves.

Attachment 1.B
Additional Instructions for
Cases Involving Contact Transmission

- The persons caring for the patient shall thoroughly wash their hands with soap and hot water after handling the patient or any object the patient may have contaminated. The use of disposable gloves is recommended for persons caring for the patient; however, immediately after using gloves for any direct contact with body fluids, gloves should be removed and discarded and hands should be washed. Gloves shall not be washed or reused.
- Objects, such as eating and drinking utensils, clothing, towels, and bedding used by the patient shall be washed with soap or detergent and hot or warm water before being used by any other person.
- Environmental surfaces rooms used by the patient shall be cleaned and disinfected once each day and when soiled with respiratory secretions, blood or other body fluids of the patient. It is recommended that the person performing the cleaning wear gloves.
- Tissues and other disposable items contaminated by the patient shall be placed in a paper or plastic bag for disposal. If used tissues are required by this order to be burned, only paper bags shall be used.

Notice

Isolation Order in Effect

Entry restricted to caregivers
and
health department personnel.

All persons entering shall comply
with
infection control procedures
set forth
in the
isolation order.

By order of the Tuolumne County
Health Department.

QUARANTINE ORDER

(In Home)

- 1) Pursuant to sections 120130 and 120175 of the California Health and Safety Code, the Health Officer of Tuolumne County **HEREBY ORDERS** that the following person(s):

_____ (Description of person(s) subject to quarantine.)

hereinafter referred to as the subject(s), is/are quarantined under the conditions specified in this order until _____ unless released from quarantine by an authorized public health

(Date)

official. Violation of or failure to comply with this order may result in civil detention, and is a misdemeanor punishable by imprisonment, fine, or both.

- 2) This order is issued due to exposure of the subject(s) to a case or suspected case of _____ as follows (describe circumstances of exposure):

- 3) The subject(s) shall be quarantined at the following location:

_____ (Description of the location where quarantine is to occur.)

- 4) The conditions of quarantine shall be as follows (only checked items and written instructions shall apply):

___ The subject(s) shall not go beyond the lot line of the location described above, or put himself/herself/themselves in immediate physical communication with any person, other than a physician, the health officer, or persons authorized by the health officer, or household members.

___ The subject(s) shall cooperate with any physician, health officer or persons authorized by the health officer who performs medical observation during the period of quarantine.

___ Additional conditions and instructions of the local health officer:

- 5) The subject(s) or the subject’s authorized lawful representative may contact the following representative of the department to seek clarification of any part of this order. If the subject(s) or his/her authorized lawful representative believe that the subject has not been exposed to a case or suspected case as described in paragraph 2, or object to the appropriateness of the conditions of quarantine contained in this order, the subject or his/her lawful authorized representative may object and/or request an informal hearing by contacting the person indicated below.

_____ (Name of Tuolumne County Health Department Contact Person)

_____ (Daytime Telephone)

- 6) The subject(s) or the subject’s authorized lawful representative may seek judicial relief from this order pursuant to California Penal Code Section 1473.

IT IS SO ORDERED.

_____ (Signature of Authorized Tuolumne County Health Department Representative)

_____ (Date of Issuance of Order)

Understand Quarantine and Isolation

Fact Sheet



Modern quarantine is used when:

- a person or a well-defined group of people has been exposed to a highly dangerous and highly contagious disease,
- resources are available to care for quarantined people, and
- resources are available to implement and maintain the quarantine and deliver essential services.

Modern quarantine includes a range of disease control strategies that may be used individually or in combination, including:

- Short-term, voluntary home curfew.
- Restrictions on the assembly of groups of people (for example, school events).
- Cancellation of public events.
- Suspension of public gatherings and closings of public places (such as theaters).
- Restrictions on travel (air, rail, water, motor vehicle, pedestrian).
- Closure of mass transit systems.
- Restrictions on passage into and out of an area.

Modern quarantine is used in combination with other public health tools, such as:

- Enhanced disease surveillance and symptom monitoring.
- Rapid diagnosis and treatment for those who fall ill.
- Preventive treatment for quarantined individuals, including vaccination or prophylactic treatment, depending on the disease.

Modern quarantine does not have to be absolute to be effective. Research suggests that in some cases partial quarantine (that is, quarantine of many exposed persons but not all of them) can be effective in slowing the rate of the spread of a disease, especially when combined with vaccination.

Modern quarantine is more likely to involve limited numbers of exposed persons in small areas than to involve large numbers of persons in whole neighborhoods or cities. The small areas may be thought of as "rings" drawn around individual disease cases. Examples of "rings" include:

- People on an airplane or cruise ship on which a passenger is ill with a suspected contagious disease for which quarantine can serve to limit exposure to others.
- People in a stadium, theater or similar setting where an intentional release of a contagious disease has occurred.

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- People who have contact with an infected person whose source of disease exposure is unknown—and therefore may be due to a covert release of a contagious disease.

In the aftermath of a disease outbreak or biological attack, there may be dozens of small "rings," each one including the people exposed to a single case of disease.

Implementation of modern quarantine requires the trust and participation of the public, who must be informed about the dangers of contagious diseases subject to quarantine before an outbreak or intentional release of biological agents, as well as during an actual event.

[CDC Emergency Preparedness and You | Understand Quarantine and Isolation | Fact Sheet](#)