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Severe Acute Respiratory Syndrome-associated Coronavirus Disease (SARS-CoV)  
Revised July 1, 2003  
Severe Acute Respiratory Syndrome-associated Coronavirus Disease (SARS-CoV)  
Case Definition  
NOTE:  
A surveillance case definition is a set of uniform criteria used to define a disease for public health surveillance. Surveillance case definitions enable public health officials to classify and count cases consistently across reporting jurisdictions. Surveillance case definitions are not intended to be used by healthcare providers for making a clinical diagnosis or determining how to meet an individual patient’s health needs.  
Clinical Description  
Early illness  
Presence of two or more of the following features: fever (might be subjective), chills, rigors, myalgia, headache, diarrhea, sore throat, or rhinorrhea  
Mild-to-moderate respiratory illness  
Temperature of >100.4°F (>38°C)\*,  
AND  
One or more clinical findings of lower respiratory illness (e.g., cough, shortness of breath, or difficulty breathing)  
Severe respiratory illness  
Meets clinical criteria of mild-to-moderate respiratory illness,  
AND  
One or more of the following findings:  
Radiographic evidence of pneumonia,  
OR  
Acute respiratory distress syndrome,  
OR  
Autopsy findings consistent with pneumonia or acute respiratory distress syndrome without an identifiable cause  
Laboratory Criteria For Diagnosis  
Tests to detect SARS-CoV are being refined and their performance characteristics assessed¶; therefore, criteria for laboratory diagnosis of SARS-CoV are changing. The following are general criteria for laboratory confirmation of SARS-CoV:  
Detection of serum antibody to SARS-CoV by a test validated by CDC (e.g., enzyme immunoassay),  
OR  
Isolation in cell culture of SARS-CoV from a clinical specimen,  
OR  
Detection of SARS-CoV RNA by a reverse transcription polymerase chain reaction test validated by CDC and with subsequent confirmation in a reference laboratory (e.g., CDC)  
Information about the current criteria for laboratory diagnosis of SARS-CoV is available at  
https://www.cdc.gov/sars/clinical/index.html  
Exposure  
Possible exposure to SARS-associated coronavirus (SARS-CoV)  
One or more of the following exposures in the 10 days before onset of symptoms:  
Close contact§ with a person with confirmed SARS-CoV disease,  
OR  
Close contact§ with a person with mild-to-moderate or severe respiratory illness for whom a chain of transmission can be linked to a confirmed case of SARS-CoV disease in the 10 days before onset of symptoms  
Case Classification  
Probable  
Meets the clinical criteria for severe respiratory illness and the epidemiologic criteria for likely exposure to SARS-CoV  
Confirmed  
Clinically compatible illness (i.e., early, mild-to-moderate, or severe) that is laboratory confirmed  
Other Criteria  
Exclusion Criteria  
A case may be excluded as a SARS report under investigation (SARS RUI), including as a CDC-defined probable SARS-CoV case, if any of the following apply:  
An alternative diagnosis can explain the illness fully\*\*,  
OR  
Antibody to SARS-CoV is undetectable in a serum specimen obtained >28 days after onset of illness††,  
OR  
The case was reported on the basis of contact with a person who was excluded subsequently as a case of SARS-CoV disease; then the reported case also is excluded, provided other epidemiologic or laboratory criteria are not present.  
SARS Report Under Investigation  
Reports in persons from areas where SARS is not known to be active  
SARS RUI-1: Cases compatible with SARS in groups likely to be first affected by SARS-CoV§§ if SARS-CoV is introduced from a person without clear epidemiologic links to known cases of SARS-CoV disease or places with known ongoing transmission of SARS-CoV  
Reports in persons from areas where SARS activity is occurring  
SARS RUI-2: Cases meeting the clinical criteria for mild-to-moderate illness and the epidemiologic criteria for possible exposure (spring 2003 CDC definition for suspect cases¶¶)  
SARS RUI-3: Cases meeting the clinical criteria for severe illness and the epidemiologic criteria for possible exposure (spring 2003 CDC definition for probable cases¶¶)  
SARS RUI-4: Cases meeting the clinical criteria for early or mild-to-moderate illness and the epidemiologic criteria for likely exposure to SARS-CoV  
Comments  
\* A measured documented temperature of >100.4°F (>38°C) is expected. However, clinical judgment may allow a small proportion of patients without a documented fever to meet this criterion. Factors that might be considered include patient’s self-report of fever, use of antipyretics, presence of immunocompromising conditions or therapies, lack of access to health care, or inability to obtain a measured temperature. Initial case classification based on reported information might change, and reclassification might be required.  
† Types of locations specified will vary (e.g., country, airport, city, building, or floor of building). The last date a location may be a criterion for exposure is 10 days (one incubation period) after removal of that location from CDC travel alert status. The patient’s travel should have occurred on or before the last date the travel alert was in place. Transit through a foreign airport meets the epidemiologic criteria for possible exposure in a location for which a CDC travel advisory is in effect. Information about CDC travel alerts and advisories and assistance in determining appropriate dates are available at  
https://www.cdc.gov/sars/travel/index.html  
.  
§ Close contact is defined as having cared for or lived with a person with SARS or having a high likelihood of direct contact with respiratory secretions and/or body fluids of a person with SARS (during encounters with the patient or through contact with materials contaminated by the patient) either during the period the person was clinically ill or within 10 days of resolution of symptoms. Examples of close contact include kissing or embracing, sharing eating or drinking utensils, close (i.e., <3 feet) conversation, physical examination, and any other direct physical contact between persons. Close contact does not include activities such as walking by a person or sitting across a waiting room or office for a brief time.  
¶ The identification of the etiologic agent of SARS (i.e., SARS-CoV) led to the rapid development of enzyme immunoassays and immunofluorescence assays for serologic diagnosis and reverse transcription polymerase chain reaction assays for detection of SARS-CoV ribonucleic acid (RNA) in clinical samples. These assays can be very sensitive and specific for detecting antibody and RNA, respectively, in the later stages of SARS-CoV disease. However, both are less sensitive for detecting infection early in illness. The majority of patients in the early stages of SARS-CoV disease have a low titer of virus in respiratory and other secretions and require time to mount an antibody response. SARS-CoV antibody tests might be positive as early as 8–10 days after onset of illness and often by 14 days after onset of illness, but sometimes not until 28 days after onset of illness.  
\*\* Factors that may be considered in assigning alternate diagnoses include the strength of the epidemiologic exposure criteria for SARS-CoV disease, the specificity of the alternate diagnostic test, and the compatibility of the clinical presentation and course of illness with the alternative diagnosis.  
†† Current data indicate that >95% of patients with SARS-CoV disease mount an antibody response to SARS-CoV. However, health officials may choose not to exclude a case on the basis of lack of a serologic response if reasonable concern exists that an antibody response could not be mounted.  
§§ Consensus guidance is in development between CDC and CSTE on which groups are most likely to be affected first by SARS-CoV if it reemerges. SARS-CoV disease should be considered at a minimum in the differential diagnoses for persons requiring hospitalization for pneumonia confirmed radiographically or acute respiratory distress syndrome without identifiable etiology and who have one of the following risk factors in the 10 days before the onset of illness:  
Travel to mainland China, Hong Kong, or Taiwan, or close contact with an ill person with a history of recent travel to one of these areas,  
OR  
Employment in an occupation associated with a risk for SARS-CoV exposure (e.g., health care worker with direct patient contact and worker in a laboratory that contains live SARSCoV),  
OR  
Part of a cluster of cases of atypical pneumonia without an alternative diagnosis.  
¶¶ During the 2003 SARS epidemic, CDC case definitions were the following:  
Suspect case  
Meets the clinical criteria for mild-to-moderate respiratory illness and the epidemiologic criteria for possible exposure to SARS-CoV but does not meet any of the laboratory criteria and exclusion criteria;  
OR  
Unexplained acute respiratory illness that results in death of a person on whom an autopsy was not performed and that meets the epidemiologic criteria for possible exposure to SARS-CoV but does not meet any of the laboratory criteria and exclusion criteria  
Probable case  
: Meets the clinical criteria for severe respiratory illness and the epidemiologic criteria for possible exposure to SARS-CoV but does not meet any of the laboratory criteria and exclusion criteria.  
The 2003 case definition appearing on this page was re-published in the 2009 CSTE position statement 09-ID-11. Thus, the 2003 and 2010 versions of the case definition are identical.  
References  
CDC. (2003). Revised U.S. Surveillance Case Definition for Severe Acute Respiratory Syndrome (SARS) and Update on SARS Cases – United States and Worldwide, December 2003.  
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NNDSS receives and shares case data from state, local, and territorial health departments to help public health monitor, control, and prevent serious diseases.  
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