

Emirate of Abu Dhabi

Health Authority - Abu Dhabi
Chief Executive Officer Office



إمارة أبوظبي
هيئة الصحة - أبوظبي
مكتب المدير العام

Circular No. (DG 39 / 13) تعميم رقم

Date: May 29th 2013

التاريخ: 29 مايو 2013

To: Directors of healthcare facilities in the
Emirate of Abu Dhabi

إلى: مدراء المنشآت الصحية في إمارة أبوظبي، المحترمين

Subject: Surveillance vigilance for the Novel
Coronavirus (nCoV)

الموضوع: انتقصي النشاط للفيروس التاجي المستجد

Greetings,

تحية طيبة وبعد،،،

We extend you our sincere greeting and
appreciation.

يطيب لنا أن نتقدم للجميع بخالص التحية والتقدير متمنين لكم
دوام التوفيق.

Under this circular HAAD emphasizes that all
health care professionals promote the active
surveillance of coronavirus based on WHO
recommendations and must be vigilant to patients
with severe acute respiratory infections (SARI);
report to HAAD as mentioned in circular no CEO
22/13 and follow up any unusual patterns.

بموجب هذا التعميم تطلب الهيئة من جميع مقدمي الرعاية
الصحية تعزيز التقصي النشط للفيروس التاجي المستجد وذلك
استناداً لتوصيات منظمة الصحة العالمية والإلتزام بالتوجيهات
الإرشادية في شأن الترصد للإصابة بالفيروس. كما يجب على
جميع العاملين في القطاع الصحي التنبه بوجود حالات العدوى
التنفسية الحادة الوخيمة وإبلاغ الهيئة كما سبق إعلانه بتعميم
رقم CEO 22/13 ومتابعة الحالات غير العادية.

According to WHO recommendation, proper
specimens (upper and lower respiratory specimens
are taken for NCoV testing relating to the
following:

بناءً على توصيات منظمة الصحة العالمية يتم أخذ عينات من
الجهاز التنفسي العلوي والسفلي لفحص الفيروس التاجي
المستجد للحالات التالية:

- Patients with severe respiratory disease
requiring mechanical ventilation.
- Patients with unexplained pneumonia or ARDS
occurring in clusters
- Health care workers requiring admission for
respiratory disease
- Patients with unusual presentation or clinical
course.

- المرضى الذين يعانون من أمراض الجهاز التنفسي الحادة
التي تتطلب وضعها على جهاز التنفس الميكانيكي.
- المرضى الذين يعانون من الالتهاب الرئوي غير المبرر أو
حالات ذات أعراض تنفسية حادة التي تحدث في
مجموعات.
- العاملين في مجال الرعاية الصحية و الذين تم إدخالهم
للمستشفى لأمراض الجهاز التنفسي.
- المرضى الذين يعانون من عرض غير عادي أو اختلاف
في تطور الحالة السريرية.



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إمارة أبوظبي هيئة الصحة - أبوظبي مكتب المدير العام

All health care providers must admit cases of Severe Acute Respiratory Illness (SARI) or suspected cases in negative pressure room or a single bed when possible to control the infection.

على مقدمي الرعاية الصحية عزل الحالة المصابة أو المشتبه في إصابتها في غرفة سلبية الضغط أو غرفة منفردة متى أمكن ذلك للحد من انتشار العدوى.

All health care providers are requested to follow the new WHO interim surveillance guidelines for nCoV attached.

الرجاء اتباع المبادئ التوجيهية من منظمة الصحة العالمية (المرفقة).

Thanking you for your kind cooperation.

وتفضلوا بقبول فائق الاحترام والتقدير .



Interim surveillance recommendations for human infection with novel coronavirus

As of 18 May 2013

Update

WHO is updating its guidance for surveillance for novel coronavirus (nCoV) on the basis of additional information received since the original recommendations were published in October 2012. WHO will continue to update these recommendations as information becomes available.

This document has been revised to emphasize WHO recommendations, rather than to summarize current case reports, which are found on the main WHO novel coronavirus page (http://www.who.int/csr/disease/coronavirus_infections/en/). It is important to note that these recommendations need to be implemented in different countries with varying resources and epidemiological patterns.

Key clinical points in this update: It is now evident that non-sustained human-to-human transmission has occurred. Co-infection of novel coronavirus with influenza A has also been reported. However, a number of unanswered questions remain, including what the virus reservoir is, how seemingly sporadic infections are being acquired, the mode of transmission between infected persons, the clinical spectrum of infection, and the incubation period.

This document offers guidance on:

- Individuals who should be tested for novel coronavirus
- Advice on reporting suspected or confirmed cases to WHO
- Recommendations for research to offer insight into critical clinical and epidemiological features of the virus.

Background

Human-to-human transmission of nCoV has now been documented in several clusters of cases, including among family members and in health care facilities. Two health care workers have been infected following contact with confirmed cases in hospital. So far, there has been no evidence of sustained transmission beyond the immediate clusters. The mode of transmission has not been determined either for sporadic cases or for human-to-human transmission, nor has a source of the virus been identified.

All confirmed cases have had respiratory disease and most have had pneumonia. However, one immunocompromised patient presented initially with fever and diarrhea and was only incidentally found to have pneumonia on a radiograph. Half of all confirmed cases have died. Complications during the course of illness have included severe pneumonia with respiratory failure requiring mechanical ventilation, acute respiratory distress syndrome (ARDS) with multi-organ failure, renal failure requiring dialysis, consumptive coagulopathy and pericarditis. A number of cases have also had gastrointestinal symptoms including diarrhea during the course of their illness.



Limited evidence suggests that nasopharyngeal swabs may not be as sensitive as lower respiratory specimens for detecting nCoV infections. Lower respiratory specimens such as sputum, endotracheal aspirate or bronchoalveolar lavage should be used when possible in addition to nasopharyngeal swab until more information is available. If initial testing of a nasopharyngeal swab is negative in a patient strongly suspected to have nCoV infection, consideration should be given to retesting using a lower respiratory specimen.

All cases have had some link to the Middle East, although local transmission from recent travelers has been observed in France and the United Kingdom.

Objectives of surveillance

The primary objectives of the enhancements described in this document are to:

1. Detect early, sustained human-to-human transmission.
2. Determine the geographic risk area for infection with the virus.

Additional clinical and epidemiological investigations (see table below) are needed to:

1. Determination of key clinical characteristics of the illness, such as incubation period, spectrum of disease, and the natural history of the disease.
2. Determination of key epidemiological characteristics of the virus, such as exposures that result in infection, risk factors, secondary attack rates, and mode of transmission.

The following people should be investigated and tested for novel coronavirus:

1. A person with an acute respiratory infection, which may include history of fever and cough and indications of pulmonary parenchymal disease (e.g. pneumonia or ARDS), based on clinical or radiological evidence of consolidation, who requires admission to hospital. In addition, clinicians should be alert to the possibility of atypical presentations in patients who are immunocompromised.

AND any of the following:

- The disease is in a cluster¹ that occurs within a 10-day period, without regard to place of residence or history of travel, unless another aetiology has been identified.
- The disease occurs in a health care worker who has been working in an environment where patients with severe acute respiratory infections are being cared for, particularly patients requiring intensive care, without regard to place of residence or history of travel, unless another aetiology has been identified.³
- The person has history of travel to the Middle East² within 10 days before onset of illness, unless another aetiology has been identified.³

¹ A "cluster" is defined as two or more persons with onset of symptoms within the same 10-day period and who are associated with a specific setting, such as a classroom, workplace, household, extended family, hospital, other residential institution, military barracks or recreational camp.

² For a map of the Middle East, see: <http://www.un.org/Depts/Cartographic/map/profile/mideastr.pdf>.



- The person develops an unusual or unexpected clinical course, especially sudden deterioration despite appropriate treatment, without regard to place of residence or history of travel, *even if another aetiology has been identified*, if that alternate aetiology does not fully explain the presentation or clinical course of the patient.
2. Individuals with acute respiratory illness of any degree of severity who, within 10 days before onset of illness, were in close physical contact⁴ with a confirmed or probable case of novel coronavirus infection, while that patient was ill.
 3. For countries in the Middle East, the minimum standard for surveillance should be testing of patients with severe respiratory disease requiring mechanical ventilation. The minimum standard should also include investigation of all those in three categories listed above—patients with unexplained pneumonia or ARDS occurring in clusters; health care workers requiring admission for respiratory disease and patients with unusual presentation or clinical course. However, countries in the Middle East are also strongly encouraged to consider adding testing for nCoV to current testing algorithms as part of routine sentinel respiratory disease surveillance and, if local capacity can support it, some testing of patients with milder, unexplained, community-acquired pneumonia requiring admission to hospital.

WHO does not advise special screening at points of entry with regard to this event nor does it recommend that any trade or travel restrictions be applied.

Reporting

WHO requests that probable and confirmed cases be reported within 24 hours of classification, through the Regional Contact Point for International Health Regulations at the appropriate WHO Regional Office. See current definitions for probable and confirmed cases at: http://www.who.int/csr/disease/coronavirus_infections/case_definition/en/index.html.

Investigations around cases of novel coronavirus infection

Many of the critical questions regarding the clinical manifestation and epidemiological characteristics of novel coronavirus infection will be answered only by careful, detailed investigations around cases. The following provides some guidance on the types of studies that should be considered. WHO is currently working with technical partners to develop standard protocols and data collection instruments for this purpose, which will be posted when they are finalized. For technical support, contact WHO on the email address outbreak@who.int with "NCV epi surv recs" in the subject line.

Investigations around confirmed cases of novel coronavirus infection

³ Testing should be according to local guidance for management of community-acquired pneumonia. Examples of other aetiologies include *Streptococcus pneumoniae*, *Haemophilus influenzae* type B, *Legionella pneumophila*, other recognized primary bacterial pneumonias, influenza, and respiratory syncytial virus.

⁴ Close contact is defined as:

- Anyone who provided care for the patient, including a health care worker or family member, or who had other similarly close physical contact;
- Anyone who stayed at the same place (e.g. lived with, visited) as a probable or confirmed case while the case was ill



Investigation	Purpose
Complete data collection on clinical history, presentation, occurrence of complications, important laboratory and X-ray findings, and course of illness.	Describe the clinical presentation and natural history of infection.
Investigation of potential exposures in the last 10 days before onset of illness. Include travel history, exposures to animals (type of animals and type of contact), exposures to other patients with acute respiratory infections, including exposures in health care settings, and consumption of raw foods and unprocessed beverages, Collect detailed information on time, duration, and intensity of exposure and type of contact.	Determine the source of infection and type of exposure.
Contact tracing, including contacts in household, workplace, school and social settings. Careful history should be taken with regard to the timing of contact with sick individuals and the onset of illness. Contacts should be tested with polymerase chain reaction (PCR) and acute and convalescent serology. Information on the severity and course of illness should be collected from even mildly symptomatic contacts who are tested for virus.	Detect evidence of human-to-human transmission; estimate secondary attack rates, duration of infectivity, and incubation period. Describe spectrum of disease, especially milder cases.
Survey of health care workers working in the environment where cases are cared for. Survey should include those not directly involved in care but working in the same ward or unit as well as those who provide intermittent care, such as radiologists, respiratory and physical therapists, etc. Include information on timing, duration, and intensity of contact, type of interaction, use of personal protective equipment (PPE), and other potential exposures outside of health care setting (e.g. animals in the home environment).	Detect evidence of human-to-human transmission, effectiveness of PPE.
Investigations for recent increases in respiratory disease activity in the community. This would include review of local hospital admission records and outpatient records of selected general practitioners in the community where infection is thought to have been acquired.	Detect signals of background transmission of novel virus.
Retrospective testing of stored specimens from patients with respiratory disease.	Detect the pre-existence of virus in the community.
Retrospective testing of stored animal specimens for presence of nCoV or antibodies.	Determine the animal reservoir and origin of the virus.
Serological surveys of potentially exposed groups of individuals such as animal workers, market workers, health care workers, and office workers	Identify types of exposure that result in infection.



(as a comparison group). Detailed information should be collected from each participant on the type and degree of exposure.	
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For questions about this document:

Email outbreak@who.int. Please put "NCV epi surv recs" in the subject line.

