Clinical management of suspected or confirmed COVID-19 disease

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Version 1.1 – 13th March 2020

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1. Background

On 31st December 2019, the World Health Organization (WHO) was alerted to a cluster of pneumonia of unknown aetiology in patients in Wuhan City, Hubei Province of China. One week later the novel coronavirus (severe acute respiratory syndrome coronavirus 2: SARS-CoV-2) was identified as the cause. The resulting illness was named COVID-19 on the 11th February 2020. The clinical spectrum of COVID-19 ranges from an asymptomatic or mild flu-like illness to a severe pneumonia requiring critical care. These guidelines describe the clinical management of cases of COVID-19 disease and covers clinical care in and outside health care facilities. It is intended for health care practitioners taking care of symptomatic patients with suspected or confirmed COVID-19.

2. Epidemiology and clinical characteristics

SARS-CoV-2 is a betacoronavirus closely related to SARS-CoV and MERS-CoV. It is an enveloped, non-segmented, positive sense RNA virus. It is thought to have originated in bats but the animal that mediated transmission to humans remains unknown.

2.1 Epidemiology

The mean incubation period for COVID-19 is estimated to be 4-5 days, with an interquartile range of 2-7 days. ^{1,2} Transmission from asymptomatic patients has been postulated, but the extent of this is unknown. ³ The reproductive number for the virus is approximately 2.2. ¹ In the early reported cases, the median age of reported cases was 50 years with a male preponderance of cases (~60%). Very few severe cases which required hospitalisation have been reported among children under the age of 15 years (~1%), although school closures may have influenced this figure. Risk factors for severe disease include older age and cardiopulmonary comorbidities.

2.2 Clinical characteristics - what to look for

80% of symptomatic patients develop mild disease, an estimated 15% develop severe disease (with hypoxaemia, dyspnoea and tachypnoea) while 5% become critically ill (with respiratory failure, septic shock and/or multiorgan dysfunction).⁴ The proportion of asymptomatic carriers is currently unknown.

The most common presenting symptom has been fever (\sim 90%, but only present in 44% on admission). Other common symptoms include cough (68%), fatigue (38%), sputum production (34%), shortness of breath (19%), myalgia or arthralgia (15%), sore throat (14%), headache (13.6%) and chills (12%).

Gastrointestinal symptoms such as nausea or vomiting (5.0%) and diarrhoea (3.8%) appear to be uncommon.

Abnormalities are visible on chest X-ray in ~60% of COVID-19 patients, and on ~85% of patients' chest CT scans. Both are more common with severe disease (77% and 95% respectively).

2.3 Outcomes and prognosis

The vast majority of cases will make a full recovery, though this may take several weeks, particularly in severe cases. In a minority of cases, COVID-19 has been associated with rapid progression to acute respiratory distress syndrome (ARDS), multiple organ failure and sometimes death. The case fatality ratio is currently unknown, but is estimated to be within the range of 0.5-4%. Among the critically ill, mortality was attributed to secondary bacterial infections with multi-drug resistant organisms, sepsis and septic shock.

3. Management of Suspected COVID-19 Cases

3.1 Early identification/triage

Patients fulfilling the latest case definition for suspected COVID-19 case (a "person under investigation") should be identified as soon as possible upon entering a health facility, to avoid prolonged contact with other patients and healthcare workers.

 The criteria for a "person under investigation" (PUI) are dynamic and will change with time. For the latest criteria, please see the NICD's website: http://www.nicd.ac.za/diseases-a-z-index/covid-19/

As of 10th March 2020, the case NICD's case definition is:

Persons with acute respiratory illness with sudden onset of at least one of the following: cough, sore throat, shortness of breath or fever [$\geq 38^{\circ}$ C (measured) or history of fever (subjective)] irrespective of admission status

AND

In the 14 days prior to onset of symptoms, met at least one of the following epidemiological criteria:

Were in close contact with a confirmed or probable case of SARS-CoV-2 infection;

OR

 Had a history of travel to areas with local transmission of SARS-CoV-2 (the list of these countries will change with time – consult the NICD website)

OR

 Worked in, or attended a health care facility where patients with SARS-CoV-2 infections were being treated

OR

Admitted with severe pneumonia of unknown aetiology

- Measures that may facilitate the earliest possible identification of suspected COVID-19 cases include:
 - Posters, pamphlets, billboards or staff members outside and within the healthcare facility asking patients who fulfil criteria for a PUI to identify themselves to healthcare workers as soon as possible (rather than remaining in line in a waiting area).
 - Including a screening questionnaire for COVID-19 as part of the standard triage form at healthcare facilities.
- Any patient who fulfils criteria for a suspected COVID-19 case should immediately have the following measures taken:
 - Give the patient a medical (surgical) mask (N95 respirators are NOT required for patients).
 - Direct the patient to a separate area, preferably an isolation room if available. Where an
 individual isolation room is not available, a 2 metre distance should be kept between
 suspected COVID-19 cases and other patients.
 - Instruct the patient to cover his/her nose and mouth during coughing or sneezing with a tissue with a flexed elbow. The patient should perform hand hygiene after contact with respiratory secretions (wash hands or use alcohol based hand rub, which should be readily available at the point of triage).
 - Limit the movement of the patient (e.g. use portable X-rays rather than sending the patient to the X-ray department). If the patient has to be moved, ensure that (s)he wears a mask.
 - The patient should have a dedicated bathroom (where this is possible).
- Patients should be quickly triaged in terms of clinical severity. Routine emergency department triage systems may be used. In the context of COVID-19, triaging is essential because:
 - o It allows for rapid initiation of supportive therapy (e.g. oxygen supplementation)
 - It has implications for whether or not the patient can be allowed home to await results of the COVID-19 testing (see below).
 - It protects both patients and staff.

3.2 Testing

All persons under investigation require testing for SARS-CoV-2 by means of reverse transcriptase PCR (RT-PCR). Samples to be sent are:

- *Upper respiratory tract samples* nasophargyngeal and oropharyngeal swabs (combined in the same universal transport medium tube) in all patients.
- Lower respiratory tract samples may not be possible depending on the patient's symptoms.
 Where available, send sputum, tracheal aspirates, or bronchoalveolar lavage fluid. Sputum induction is not recommended.
- Serum sample may be sent to NICD in addition, though the primary method of diagnosis remains respiratory samples as above. Send one sample during acute illness (1st week), and a second sample during convalescence (3rd-4th week).

Appropriate personal protective equipment (PPE) should be worn by all healthcare workers when obtaining specimens (see IPC section below).

The differential diagnosis of suspected cases includes influenza (remembering the seasonality in patients from the northern hemisphere differs from those of the southern hemisphere), both conventional and atypical bacterial pneumonias, and in patients with HIV and a CD4 count <200 cells/mm³ (or equivalent immunosuppression), *Pneumocystis jirovecii* pneumonia. Depending on the patient, appropriate samples may include:

- Full blood count + differential count
- Blood cultures
- Nasopharyngeal swabs or aspirates and oropharyngeal swabs for detection of viral and atypical pathogens
- Chest radiography
- Sputum for MCS and/or Mycobacterium tuberculosis detection (GeneXpert MTB/RIF Ultra).

Obtaining samples for SARS-CoV-2 testing

- Healthcare workers obtaining respiratory samples require appropriate personal protective equipment, including those for contact, droplet and aerosol precautions (see infection prevention and control section below).
- Collecting a good quality specimen is vital. For details on how to properly obtain good quality specimens, please see Appendix 5 of the NICD's COVID-19 guidelines for case-finding, diagnosis, management and public health response in South Africa: http://www.nicd.ac.za/wp-content/uploads/2020/02/Guidelines-for-case-finding-diagnosis-management-and-public-health-response-in-South-Africa.pdf

Transport of specimens

• Ensure that samples are kept between 2-8°C until they are processed.

For samples sent to the NICD:

Mark all samples as:

Suspected COVID-19 CRDM

NHLS/NICD

Centre for Respiratory Diseases and Meningitis (CRDM)

Lower North Wing, SAVP Building

1 Modderfontein Road, Sandringham, Johannesburg, 2131

NHLS laboratories use usual overnight region courier service. Private labs should organise shipment using existing systems, or contact CRDM for assistance if shipping is unavailable.

3.3 Empiric treatment of other pathogens

Where the patient fits the appropriate clinical syndrome, consider treatment of other pathogens such as:

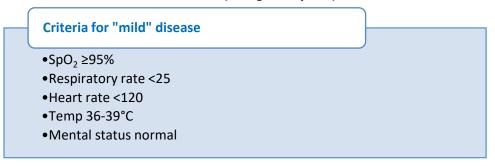
 Conventional community-acquired pneumonia pathogens (or hospital-acquired pneumonia pathogens if appropriate) – e.g. amoxicillin-clavulante [see <u>SA community-acquired pneumonia</u> <u>guidelines</u>]

- Atypical pneumonia pathogens e.g. azithromycin [see <u>SA community-acquired pneumonia</u> guidelines]
- Influenza (if influenza epidemiology fits and has severe illness or if patient is at risk of severe influenza) – oseltamivir [see NICD influenza guidelines]
- PCP (if appropriate risk factors present, e.g. HIV with low CD4 count)

3.4 Managing patients at home while awaiting COVID-19 test results

Suspected COVID-19 cases who are medically well, or who are assessed as having only mild disease, may be managed at home while awaiting test results.

Table 1 - Criteria for "mild" disease (for age >12 years)1



¹For age 5-12, use respiratory rate <30, and heart rate <130. For younger ages, use age-appropriate normal values.

Such patients should be instructed to self-isolate at home and be given appropriate advice about reducing possible transmission to others:

- Patients should stay in a specific room and use their own bathroom (if possible). Patients should avoid unnecessary travel and unnecessary contact with other people.
- Where contact is unavoidable, the patient should wear a facemask, and maintain a distance of at least 1 metre (preferably 2 metres) from other people
- Patients should clean their hands with soap and water frequently. Alcohol-based sanitizers may also be used, provided they contain at least 70% alcohol.
- Patients should practice good cough and sneeze hygiene, by using a tissue, and then immediately discarding the tissue in a lined trash can, followed by washing hands immediately.
- Patients should not have visitors in their home. Only those who live in their home should be allowed to stay.
- At home, the patient should stay in a specific room and use his/her own bathroom (if possible).
 If they live in shared accommodation (university halls of residence or similar) with a communal kitchen, bathroom(s) and living area, they should stay in their room with the door closed, only coming out when necessary, wearing a facemask if they do so.
- Patients should avoid sharing household items like dishes, cups, eating utensils and towels. After using any of these, the items should be thoroughly washed with soap and hot water.
- All high-touch surfaces like table tops, counters, toilets, phones, computers, etc. should be appropriately and frequently cleaned.
- If patients need to wash laundry at home before the results are available, then they should wash all laundry at the highest temperature compatible for the fabric using laundry detergent. This should be above 60° C. If possible, they should tumble dry and iron using the highest setting compatible with the fabric. Disposable gloves and a plastic apron should be used when handling

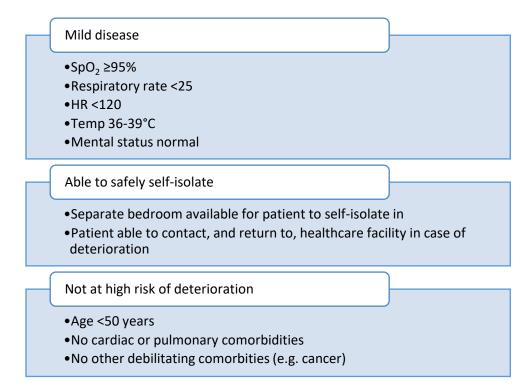
- soiled materials if possible and all surfaces and the area around the washing machine should be cleaned. Laundry should not be taken to a laundrette. The patient should wash his/her hands thoroughly with soap and water after handling dirty laundry (remove gloves first if used).
- Patients should know who to call if they develop any worsening symptoms, so that they can be safely reassessed.
- In addition to being given the above advice, a patient information sheet can be given if possible (see Appendix 1 for an example).

4. Management of Confirmed COVID-19 Cases

The goal in clinical management of cases is to reduce morbidity and mortality and minimise transmission to uninfected contacts. Triaging patients and early identification of patients who are severely or critically ill and require hospital or ICU admission will be essential in reducing morbidity and mortality while isolation and implementation of infection prevention and control (IPC) measures within facilities as well as contact tracing, education on good cough hygiene and IPC at home will help minimise onward transmission of the virus. Key management principles include:

- **4.1 Rapid triage of cases** in order that appropriate IPC measures and an appropriate level of supportive care can be commenced.
 - Cases triaged as having moderate or severe disease will require admission for medical reasons.
 Provided capacity exists, hospitals designated to manage COVID-19 cases should be primarily used for admissions.
 - Patients with mild disease may be considered for management at home, provided they are able to safely self-isolate and are not at risk of developing severe disease (see criteria in table 2).
 - If patients are to be managed at home, is imperative that all appropriate measures are taken to prevent onward transmission of the disease to others give advice as in section 3.1 above.
 - Note also that in 10-15% of cases, those patients assessed as having "mild" disease may
 continue to worsen over the course of a week or more and become severely ill. Patients
 managed from home need to be given the contact details of their doctor or healthcare facility
 that they can reach out to in case of any clinical deterioration.
 - Patients managed from home will have monitoring and subsequent viral sampling (see section 4.5) facilitated by their local health department. The NICD will alert each provincial health department of all new cases on a daily basis to facilitate this process.

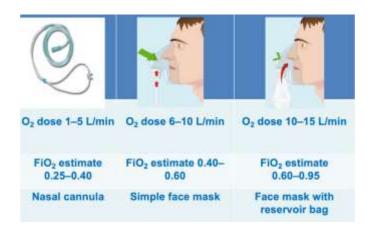
Table 2 - Criteria for management at home (for age >12 years¹):



¹For age 5-12, use respiratory rate <30, and heart rate <130. For younger ages, use age-appropriate normal values.

4.2 Early supportive therapy in hospitalised COVID-19 patients

- Give supplemental oxygen therapy immediately to patients with low oxygen saturation.
 - Oxygen therapy is likely to be the single most effective supportive measure in in COVID-19 patients overall. Target SpO₂ ≥90% in non-pregnant adults and SpO₂ ≥92-95 % in pregnant patients. Children with emergency signs (obstructed or absent breathing, severe respiratory distress, central cyanosis, shock, coma or convulsions) should receive oxygen therapy during resuscitation to target SpO₂ ≥94%; otherwise, the target SpO₂ is ≥90%.
 - Titrate oxygen therapy up and down to reach targets by means of nasal cannula, a simple face mask or a face mask with reservoir bag, as appropriate:



- Use conservative fluid management in patients with SARI when there is no evidence of shock. Aggressive fluid resuscitation may worsen oxygenation, especially in settings where there is limited availability of mechanical ventilation.^{6,7}
- If a clinical suspicion for co-infection exists, consider empiric antimicrobials to treat copathogens pathogens causing the syndrome, particularly in severe cases. This may include conventional and atypical bacterial pathogens, influenza and PCP (see section 3.3 above).
- Closely monitor patients with SARI for signs of clinical deterioration, such as rapidly progressive respiratory failure and sepsis, and apply supportive care interventions immediately.

4.3 Specific therapies

O Do not routinely give systemic corticosteroids for treatment of COVID-19 unless they are indicated for another reason.

A systematic review of observational studies of corticosteroids administered to patients with SARS reported no survival benefit and possible harms (avascular necrosis, psychosis, diabetes, and delayed viral clearance). A systematic review of observational studies in influenza found a higher risk of mortality and secondary infections with corticosteroids; the evidence was judged as very low to low quality due to confounding by indication. A subsequent study that addressed this limitation by adjusting for time-varying confounders found no effect on mortality. Finally, a recent study of patients receiving corticosteroids for MERS used a similar statistical approach and found no effect of corticosteroids on mortality but delayed lower respiratory tract (LRT) clearance of MERS-CoV. Given lack of effectiveness and possible harm, routine corticosteroids should be avoided unless they are indicated for another reason.

There is no current evidence from RCTs to recommend any specific anti-nCoV treatment for patients with suspected or confirmed 2019-nCoV infection. Unlicensed treatments should be administered only in the context of ethically approved clinical trials or the Monitored Emergency Use of Unregistered Interventions Framework (MEURI), with strict monitoring.

4.4 Management of hypoxemic respiratory failure and ARDS

Recognize severe hypoxemic respiratory failure when a patient with respiratory distress is failing standard oxygen therapy. Patients may continue to have increased work of breathing or hypoxemia (SpO₂ <90%, PaO₂ <60 mmHg [<8.0 kPa]) even when oxygen is delivered via a face mask

with reservoir bag. Hypoxemic respiratory failure in ARDS commonly results from intrapulmonary ventilation-perfusion mismatch or shunt and usually requires mechanical ventilation.

High-flow nasal oxygen (HFNO) or non-invasive ventilation (NIV) should only be used in selected patients with hypoxemic respiratory failure. The risk of treatment failure was high in patients with MERS treated with NIV, and patients treated with either HFNO or NIV should be closely monitored for clinical deterioration.

Patients with hypercapnia (exacerbation of obstructive lung disease, cardiogenic pulmonary oedema), hemodynamic instability, multi-organ failure, or abnormal mental status should generally not receive HFNO, although emerging data suggest that HFNO may be safe in patients with mild-moderate and non-worsening hypercapnia. Patients receiving HFNO should be in a monitored setting and cared for by experienced personnel capable of endotracheal intubation in case the patient acutely deteriorates or does not improve after a short trial (about 1-2 hrs).

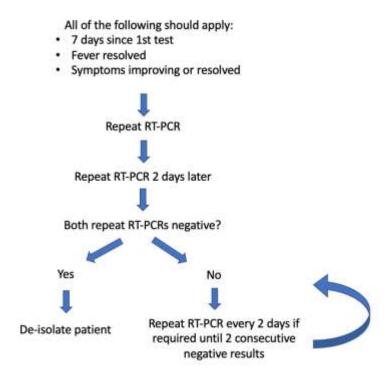
- Risks of NIV include delayed intubation, large tidal volumes, and injurious transpulmonary pressures. Limited data suggest a high failure rate when MERS patients receive NIV.¹¹
- Recent publications suggest that newer HFNO and NIV systems with good interface fitting do
 not create widespread dispersion of exhaled air and therefore should be associated with low
 risk of airborne transmission, though this is an area of ongoing study and so airborne
 precautions should be used.¹³⁻¹⁵

For intubated patients with ARDS use lung-protective ventilation strategies. Always consult an expert intensivist if possible. Detailed recommendations on mechanical ventilation strategies are beyond the scope of the guideline. Nonetheless, the general principles in patients with ARDS include:

- Aim for an initial tidal volume of 6mg/kg.¹⁶ Tidal volume up to 8 ml/kg predicted body weight is allowed if undesirable side effects occur (e.g. dyssynchrony, pH <7.15).
- Use lower inspiratory pressures (plateau pressure <30 cmH₂O).¹⁶
- Hypercapnia is permitted if meeting the pH goal of 7.30-7.45.
- Application of prone ventilation >12 hours a day is strongly recommended for patients with severe ARDS.¹⁶
- In patients with moderate or severe ARDS, moderately higher PEEP instead of lower PEEP is suggested.¹⁶
- The use of deep sedation may be required to control respiratory drive and achieve tidal volume targets.
- In patients with moderate-severe ARDS (PaO₂/FiO₂ <150), neuromuscular blockade by continuous infusion should not be routinely used.¹⁷ Continuous neuromuscular blockade may still be considered in patients with ARDS in certain situations: ventilator dyssynchony despite sedation, such that tidal volume limitation cannot be reliably achieved; or refractory hypoxemia or hypercapnia.
- In settings with access to expertise in extracorporeal life support (ECLS), consider referral of patients with refractory hypoxemia despite lung protective ventilation. 18-20
- Avoid disconnecting the patient from the ventilator, which results in loss of PEEP and atelectasis. Use in-line catheters for airway suctioning and clamp endotracheal tube when disconnection is required (for example, transfer to a transport ventilator).

4.5 Repeat specimens

Patients may continue to be PCR positive after clinical resolution, although for how long such virus is viable (and thus infectious) remains to be determined. Repeat nasopharyngeal and oropharyngeal swabs should be only be sent once the patient's fever (if present) has resolved, clinical improvement has been noted, and a minimum of 7 days has passed since the initial positive test. Samples should be sent every 2 days until two consecutive negative RT-PCR tests have been documented.



4.6 Discharge and deisolation criteria

Patients with COVID-19 can be discharged home provided the meet ALL of the following criteria:

- 1. There are no medical indications for admission.
- 2. The patient's symptoms have improved or resolved. (Note: full recovery can take several weeks, especially in severe cases. It is not necessary for every symptoms to have completely resolved prior to discharge, only that there has been improvement).
- 3. The patient has two consecutive negative combined nasopharyngeal and oropharyngeal RT-PCR tests, performed at least 24-48 hours apart.

Patients with mild disease who were managed at home from the outset can be deisolated using the same criteria.

5. Infection prevention and control (IPC)

IPC is a critical and integral part of clinical management of patients and should be initiated at the point of entry of the patient to hospital (typically the Emergency Department). A combination of standard, contact and droplet precautions should be practiced for all COVID-19 cases, and further precautions when performing aerosol-generating procedures (AGP).

Standard precautions are used to prevent or minimize transmission of pathogens at all times, and should be applied to all patients in healthcare facilities irrespective of their diagnosis or status. These include hand hygiene, appropriate use of PPE, safe handling of sharps, linen and waste, disinfection of patient care articles, respiratory hygiene, occupational health and injection safety.

Transmission-based precautions - droplet, and contact:

- Hand hygiene is the first and most essential aspect
- Healthcare worker PPE consists of gloves, gown, and a medical mask.
- Safe waste management
- Use either disposable or dedicated equipment (e.g. stethoscopes, blood pressure cuffs and thermometers). If equipment needs to be shared among patients, clean and disinfect between each patient use.
- Limit patient movement within the institution (e.g. where possible, use portable X-rays rather than sending the patient to the X-ray department), and ensure that patients wear medical masks when outside their rooms.

Aerosol-generating Procedures:

Aerosol precautions are required when performing aerosol-generating procedures. These include taking respiratory tract samples for SARS-CoV-2 testing (such as nasopharyngeal and oropharyngeal swabs), intubation, bronchoscopy, open suctioning of the respiratory tract, and cardiopulmonary resuscitation. Aerosol precautions for healthcare workers:

- Healthcare worker PPE consists of gloves, gown, a fit-tested particulate respirator (N95 respirator), and eye protection (goggles or face shield).
- Use an adequately ventilated single room when performing aerosol-generating procedures, with spacing between beds of at least 1-1.5 metres.

For more details, refer to the World Health Organization IPC guidelines:

https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/infection-prevention-and-control

6. Recording and reporting

The goal of clinical management is to reduce morbidity and mortality from COVID-19 It is important to record and report the cases of COVID-19 disease in order to track the size and severity of the epidemic, the care received by patients in and out of hospital and identify areas for improvement in current and

future outbreaks. There different tools which will be needed to record and report clinical cases of COVID-19.

Tool	When to complete	Comments
Person of interest form	To be completed for all individuals suspected of COVID 19 disease and have	
	a specimen taken	
NMC case notification	To be completed for all cases who meet the case definition for COVID-19	Can be completed online using NICD NMC mobile or web based app
Admission form (For	To be completed for all confirmed	This form will document
inpatients)	patients admitted to a health care	presence of co-morbidities,
	facility at admission or as soon as	severity of illness at
	possible after admission	admission
Daily monitoring form	To be completed for all confirmed	This form will document the
(separate forms for	patients for each day until they are	daily symptoms, signs and
inpatients and outpatients)	considered cured (by PCR criteria).	severity of disease during
		admission
Discharge form (different	To be completed for all confirmed	This form will document
forms for inpatients and	patients	patient outcomes such as
outpatients)		death, transfer or discharge.
Homecare form (for	To be completed for all confirmed	This form will document
outpatients)	patients admitted with mild disease	presence of co-morbidities,
	managed at home.	severity of illness at
		admission

The latest version of these forms are available from www.nicd.ac.za

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Appendix 1 – Example of a patient information sheet

<u>Example of a patient information sheet for use with suspected cases who are being sent home to await test results for SARS-CoV-2 (COVID-19).</u>

While awaiting test results for COVID-19 (the novel coronavirus), you have been assessed as being medically well enough to be managed at home.

However, please consider yourself as potentially infectious until the final results are available. You will need to abide by the following:

- You should quarantine yourself at home. Don't go to work, avoid unnecessary travel, and as far as possible avoid close interactions with other people.
- You should clean your hands with soap and water frequently. Alcohol-based sanitizers may also be used, provided they contain at least 60% alcohol.
- Do not have visitors in your home. Only those who live in your home should be allowed to stay. If it is urgent to speak to someone who is not a member of your household, do this over the phone.
- You should wear a facemask when in the same room (or vehicle) as other people.
- At home, you should stay in a specific room and use your own bathroom (if possible). If you live in shared accommodation (university halls of residence or similar) with a communal kitchen, bathroom(s) and living area, you should stay in your room with the door closed, only coming out when necessary, wearing a facemask if one has been issued to you.
- You should practice good cough and sneeze hygiene by coughing or sneezing into a tissue, discarding the tissue immediately afterwards in a lined trash can, and then wash your hands immediately.
- If you need to wash the laundry at home before the results are available, then wash all laundry at the highest temperature compatible for the fabric using laundry detergent. This should be above 60° C. If possible, tumble dry and iron using the highest setting compatible with the fabric. Wear disposable gloves and a plastic apron when handling soiled materials if possible and clean all surfaces and the area around the washing machine. Do not take laundry to a laundrette. Wash your hands thoroughly with soap and water after handling dirty laundry (remove gloves first if used).
- You should avoid sharing household items like dishes, cups, eating utensils and towels. After using any of these, the items should be thoroughly washed with soap and water.
- All high-touch surfaces like table tops, counters, toilets, phones, computers, etc. that you may have touched should be appropriately and frequently cleaned.
- Monitor your symptoms Seek prompt medical attention if your illness is worsening, for
 example, if you have difficulty breathing, or if the person you are caring for symptoms are
 worsening. If it's not an emergency, call your doctor or healthcare facility at the number below.
 If it is an emergency and you need to call an ambulance, inform the call handler or operator that
 you are being tested for SARS-CoV-2.

While awaiting the results, if your symptoms worsen:

- Call:
- Or come to:

Standard precautions to prevent transmission of COVID-19

	Кеер уо	your hands clean	
	When?	 After visiting the bathroom Before and after eating After blowing your nose Whenever you think your hands are dirty 	
	How?	Use alcohol hand rub or wash hands with soap and water	
	Caution	Never touch your eyes, nose or mouth with unwashed hands	
WE	Cover y Once us	distance of 2 meters between you and a person with a cough your own cough or sneeze with a tissue sed, throw the tissue away in a closed container our hands afterwards	
7'	phones Do not	share items with other people (clothing, blankets, pillows, towels, mobile s, uncovered food, magazines, books) keep the toilet lid up when you flush the toilet (you can transmit the om all body excretions)	
F.M.	 Keep your immediate environment clean Wipe frequently-touched areas regularly with a disinfectant cloth Discard all waste immediately 		