Circular Letter No. 4252
3 April 2020

To: All IMO Members
Intergovernmental organizations
Non-governmental organizations in consultative status

Subject: Communication from the Republic of Moldova

The Government of the Republic of Moldova has sent the attached communication, dated 3 April 2020, with the request that it is circulated by the Organization.

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No. 200 from 03\textsuperscript{rd} of April 2020
To: His Excellency Kitack Lim
Secretary General of International maritime Organization
4 Albert Embankment, London SE1 7SR
United Kingdom

NOTIFICATION

On the measures taken by the Naval Agency of Republic of Moldova in the context of coronavirus 2019 (Covid-19) outbreak

Dear Secretary General,

The Naval Agency of Republic of Moldova (NARM) presents its compliments to the International Maritime Organization (IMO) and has the honor to communicate the following.

Hereby, NARM submits to the Secretary General of the IMO the operational directive No. 24-P dated March 16, 2020 concerning the precautionary measures taken by the Naval Agency of Republic of Moldova in order to minimize risk of community spread of the coronavirus disease 2019 (Covid-19) in the ports of Republic of Moldova and on board of vessels flying the Moldavian flag, and kindly asks to disseminate this information among the other IMO contracting governments.

NARM avails itself of this opportunity to assure your Excellency and the IMO of its highest consideration.

Sincerely yours,

Igor ZAHARIA
NARM Director
OPERATIONAL DIRECTIVE

PRECAUTIONARY MEASURES TO MINIMISE RISK OF COMMUNITY SPREAD OF THE CORONAVIRUS DISEASE 2019 (COVID-19) IN THE PORTS OF REPUBLIC OF MOLDOVA AND ON BOARD OF MOLDOVA FLAG

No. 24-P from 16th of March 2020

To: Port Authorities of the Port Complex Giurgiulesti, Maritime Port Agents, Port Operators and other economic agents in port

To: Registered owners, Registered bareboat charterers, Managers and Representatives of ships flying the Moldova Flag

Pursuant to art. 1 letter h), art.6 paragraph 1, art.6¹ and paragraph 4 letter t) and letter u) from the Law No. 599 from 30.09.1999 for the approval of the Code of commercial maritime navigation of the Republic of Moldova, point 7, point 9 paragraph 1) letter b) and c) and paragraph 6 letter a), point 10 paragraph 2) of the regulations on the organization and functioning of the Naval Agency of the Republic of Moldova of the Government decision No. 706 from 11.07.2018 regarding the creation of the Naval Agency of the Republic of Moldova, Naval Agency of Republic of Moldova approve this operational directive and enter into force as of the date of approval.

1. As the matter has revealed worrying situations, Naval Agency have noted that the Moldova Authorities have recently taken mandatory decisions leading to preventive actions at the country level.

2. In this respect, as a result of the information obtained from the World Health Organization (WHO) that determined that the outbreak of Coronavirus (COVID-19) is a pandemic on 11 March 2020. COVID-19 is a severe public health challenge that requires understanding and close cooperation among all Member States to overcome challenges related to the implementation and enforcement of the relevant IMO instruments.

Section I. General Dispositions


3.1 IMO Circular Letter No.4204/Add.2 of 21 February 2020 containing the “Joint Statement of the IMO- World Health Organization (WHO) on the Response to the COVID-19 Outbreak”. While recognising the need to prevent the introduction or spread of the disease,
the Joint IMO-WHO Statement inter alia notes that unnecessary interference with maritime traffic should be minimised. The Joint IMO-WHO Statement further highlights the importance of avoiding causing unnecessary restrictions or delay on port entry to ships, persons and property on board;

3.2 IMO Circular Letter No.4204/Add.3 of 2 March 2020 containing “Operational Considerations for Managing COVID-19 cases/outbreak on board ships” developed by the WHO. This document inter alia contains guidance on pre-boarding and pre-disembarkation information, pre-boarding screening, crew education, managing a suspected case on board, disembarkation of a suspect case, development and activation of a written outbreak plan for passenger ships as well as obligations of shipowners to inform the authorities of the next port of call of any suspected case;

3.3 IMO Circular Letter No.4204/Add.4 of 5 March 2020 containing “Guidance for ship operators for the protection of the health of seafarers” prepared by the International Chamber of Shipping in response to the coronavirus outbreak to support all types of ships and help shipping companies follow advice provided by United Nations Agencies, including the IMO, the WHO as well as the International Labour Organization and the European Centre for Disease Prevention and Control.

3.4 Copies of aforementioned new IMO Circular Letters are attached hereto.

4. All owners and managers of ships flying the Moldova Flag are advised and mandatory to take note and implement the measures contained in the latest IMO Circular Letters No.4204/Add.2, No.4204/Add.3 and No.4204/Add.4 as well as other future Interim Advices from IMO, WHO and Naval Agency.

5. Port Administrations of the Port Complex Giurgiulesti are obliged to restrict the visitors, to implement the WHO, IMO and national preventional measures for all persons in port area, including mandatory respiratory protection in the form of masks for each person, wear gloves and provided hand hygiene. Persons that experience respiratory symptoms (e.g. cough, runny nose, shortness of breath) or feel feverish, must refused to entry the port and sent home for isolation or sent to near emergency hospital, both cases with information of medical authorities.

**Section II. Precautionary Measures in PORT COMPLEX GIURGIULESTI**

6. In view of the present situation evolving globally regarding the Coronavirus, as a precautionary measure PORT COMPLEX GIURGIULESTI will be prohibiting with immediate effect the disembarkation of crew members from any vessel calling at this port, except of Moldova Citizens on board of these vessels.

7. The vessel crew is also required to self-isolate when possible.

8. All the formalities of arrival and departure of the vessel from the port, will take place exclusively in the office, through electronic communications or through the port maritime agent or in exclusive matters through the Master of the ship. Port Maritime Agent, Master of the ship and Naval Agency staff are obliged to wear respiratory protection in the form of masks and hand gloves. Avoiding of mandatory protective measures will lead of stopping any arrival or departure formalities. Crew members are prohibited to disembark from the vessel.

9. Furthermore with respect to ongoing operations, crew members must practice general infection and prevention advices when and if interacting with shore personnel and agency staff embarking the vessel in cases of an emergency. **Such measures includes mandatory social distancing, hand hygiene and respiratory protection in the form of masks and wear gloves.**
10. Crew members will only be allowed to disembark the vessel if they have been granted special permission by the relevant authorities.

11. Master of the Ship and/or Port Maritime Agent are obliged to present the notice with information about each crew member’s health to the Naval Agency and Port Administration before 72, 24 and 12 hours of arrival of the vessel in the Port Complex Giurgiulesti.

11.1. Master of the vessel and Port Maritime Agent must present the notice if the vessel or crew members or passengers on board have visited an area where COVID-19 has been reported within the past 14 days, in this matter Master must present the information of the last calls of ports for a period of 14 days.

11.2. Master of the ship should monitor the health of its crew and passengers closely before 72, 24 and 12 hours of arrival of the vessel in the Port Complex Giurgiulesti. Masters of the vessel are required to report to if its crew and passengers are unwell, experience respiratory symptoms (e.g. cough, runny nose, shortness of breath) or feel feverish:

a) With acute respiratory infection, either a cough, sore throat, shortness of breath, whether requiring hospitalisation or not;

b) With a temperature of the body of 37° or higher;

c) Patients isolated in either an isolation ward, cabin, room or quarters with precautionary measures.

11.3. The informative Notice will include mandatory the list of crew members and passengers, the body temperature of each person at the time and the general information according to those specified in the point 11.1 and 11.2 at every time before 72, 24 and 12 hours of arrival in the Port Complex Giurgiulesti.

11.4. The Master should immediately alert the port authorities about any suspect case to determine if the necessary capacity to transport, isolate, and care for the individual is available.

12. If any infection or contamination is found on board visiting ships, Port Authorities may take additional measures to prevent spread of the infection or contamination.

13. Port Authorities must ensure that any seafarers on board ships in the port who need immediate medical care are given access to medical facilities on shore and will be disembark only after calling 112 (the unique national service for emergency calls) and arriving the medical personnel of the ambulance.

14. In case of immediate medical care, the vessel should take the following precautions before disembark of the person:

- Control disembarkation to avoid any contact with other persons on board;

- The patient should wear a surgical mask; and

- Personnel escorting the patient should wear suitable PPE (gloves, impermeable gown, goggles and medical mask).

15. The vessel may proceed to its next port of call once the health authority has determined that public health measures have been completed satisfactorily in particular, and the persons disembarked for medical care have been negative tested for Covid-19. In case of a positive test to this virus, the vessel will have interdiction of departure and the crew members will be placed in quarantine in accordance with the sanitary norms and the instructions of the medical authorities at the board of the vessel or at the near hospital.

SECTION III. Precautionary Measures on board of ships under Moldova Flag
16. Many governments have now introduced national and local restrictions including:
- Delayed port clearance;
- Prevention of crew or passengers from embarking or disembarking (preventing shore leave and crew changes);
- Prevention of discharging or loading cargo or stores, or taking on fuel, water, food and supplies; and
- Imposition of quarantine or refusal of port entry to ships (in extreme cases).

17. If any infection or contamination is found on board visiting ships, port States may take additional measures to prevent spread of the infection or contamination. Together with companies and Masters should co-operate with port State authorities to ensure, where appropriate, that if:
- Seafarers can be changed;
- Passengers can embark and disembark;
- Shore leave can continue if safe to do so;
- Cargo operations can occur;
- Ships can enter and depart shipyards for repair and survey;
- Stores and supplies can be loaded; and
- Necessary certificates and documentation can be issued.

18. Seafarers (on board ship or on leave) should inform their healthcare providers if they have visited an area where COVID-19 has been reported within the past 14 days, or if they have been in close contact with someone with respiratory symptoms who has been to a place which has COVID-19.

19. If seafarers have fever, cough or difficulty breathing it is important to seek medical attention promptly.

20. When someone infected with a respiratory disease, such as COVID-19, coughs or sneezes they project small droplets containing the virus. Sneezing or coughing into hands may contaminate objects, surfaces or people that are touched. Standard Infection Protection and Control (IPC) precautions emphasise the vital importance of hand and respiratory hygiene. In particular:
- Frequent hand washing by crew (and passengers) using soap and hot water or alcohol-based (at least 65–70%) hand rub for 20 seconds;
- Avoidance of touching the face including mouth, nose and eyes with unwashed hands (in case hands have touched surfaces contaminated with the virus);
- Seafarers (and passengers) should be encouraged to cover their nose and mouth with a disposable tissue when sneezing, coughing, wiping and blowing the nose then dispose of the used tissue immediately;
- If a tissue is not available, crew should cover their nose and mouth and cough or sneeze into a flexed elbow;
- All used tissues should be disposed of promptly into a waste bin;
- Seafarers should aim to keep at least one metre (3 feet) distance from other people, particularly those that cough or sneeze or may have a fever. If they are too close, other crew members can potentially breathe in the virus; and
- Meat, milk or animal products should always be handled with care, to avoid cross-contamination with uncooked foods, consistent with good food safety practices.

21. It is important that seafarers should be given the time and opportunity to clean their hands after coughing, sneezing, using tissues, or after possible contact with respiratory secretions or
objects or surfaces that might be contaminated. Although face masks may provide some protection – especially if there is a risk of exposure when interacting with persons from outside the ship – the routine use of face masks is not generally recommended as protection against COVID-19. WHO advises that it is appropriate to use a mask when coughing or sneezing. If an individual is healthy, it is only necessary to wear a mask if the person is taking care of a person with the suspected COVID-19 infection.

22. Ships should develop a written outbreak management plan. Seafarers on board should have knowledge of the outbreak management plan and implement it as required. Passengers and Seafarers should receive information in accordance with the WHO advice for international traffic regarding the outbreak of COVID-19. Advice is available on the WHO website for COVID-19 at www.who.int/health-topics/coronavirus

23. Ship Operators should provide guidance to crew on how to recognise the signs and symptoms of COVID-19. Crew should be reminded of the plan and procedures to follow if a passenger or crew member on board displays signs and symptoms of acute respiratory disease. Ships should develop a written outbreak management plan. Seafarers on board should have knowledge of the outbreak management plan and implement it as required. Passengers and Seafarers should receive information in accordance with the WHO advice for international traffic regarding the outbreak of COVID-19.

24. If people only have mild respiratory symptoms and have not visited an area where COVID-19 has been reported within the past 14 days, or if they have not been in close contact with someone with respiratory symptoms who has been to a place which has COVID-19, they should still carefully practise basic hand and respiratory hygiene and isolate themselves, if possible, until fit.

25. If the virus spreads more widely this definition may change, but a suspect case requiring diagnostic testing is generally considered to be:
- A patient with acute respiratory illness (fever and at least one sign/symptom of respiratory disease (e.g. cough, shortness of breath), and with no other set of causes that fully explains the clinical presentation and a history of travel to or residence in a country/area or territory reporting local transmission of (COVID-19) during the 14 days prior to the onset of the symptoms.
- A patient with any acute respiratory illness and having been in contact with a confirmed or suspected COVID-19 case during the 14 days prior to the onset of the symptoms.
- A patient with severe acute respiratory infection (fever and at least one sign/symptom of respiratory disease e.g. cough, shortness of breath and requiring hospitalization and with no other set of causes that fully explain the symptoms.

26. Any person on board that may have been in close contact with a suspect case should be:
- Traced immediately after the suspect case is identified;
- Asked to remain on board until laboratory results of the suspect case are available (measures that apply following positive laboratory results are described below); and
- Categorised as either contacts with high risk exposure or with low risk exposure.

27. A ‘close contact’ is a person who, for example:
- Has stayed in the same cabin with a suspect/confirmed COVID-19 case;
- Has had close contact within one metre or was in a closed environment with a suspect/confirmed COVID-19 case (for passengers this may include sharing a cabin);
- Participated in common activities on board or ashore;
• Participated in the same immediate travelling group;
• Dined at the same table (for crew members this may include working together in the same ship area);
• Is a cabin steward who cleaned the cabin;
• Is restaurant staff who delivered food to the cabin;
• Is a gym trainer who provided close instruction to a case; or
• Is a medical support worker or other person providing direct care for a COVID-19 suspect or confirmed case.
• Close contacts may be difficult to define on board a confined space such as a passenger ship, and if widespread transmission is identified then all persons on board could be considered as 'close contacts' having had high risk exposure.

28. Ship operators should provide specific guidance and training for their seafarers regarding:
• Hand washing (using soap and hot water, rubbing hands for at least 20 seconds);
• When hand washing is essential (e.g. after assisting an ill traveller or after contact with surfaces they may have contaminated, etc);
• When to hand rub with an antiseptic instead of hand washing, and how to do this;
• How to cough and sneeze hygienically (e.g. using disposable tissues or a flexed elbow);
• Appropriate waste disposal;
• When and how to use masks; and
• Avoiding close contact with people suffering from acute respiratory infections.

29. The competent authority of the next port of call must always be informed if there is a suspect case on board. For ships on an international voyage, if someone has died on board the International Health Regulations (IHR) state that the statement should be completed and sent to the competent authority in accordance with local requirements.
• The Master should immediately alert the competent authority at the next port of call about any suspect case to determine if the necessary capacity to transport, isolate, and care for the individual is available.
• The ship may need to proceed, at its own risk, to another nearby port if capacity is not available, or if warranted by the critical medical status of the suspect case.
• After measures applied are considered by the port health authority to be completed satisfactorily, the ship should be allowed to continue the voyage. The measures taken should be recorded in the valid ship sanitation certificates. Both embarking and disembarking ports must be notified of contacts on board and any measures taken.

30. Ship owners, managers, operators, agents and masters of Moldova registered vessels should monitor the health of their crew closely, provide all necessary medicine in board and preventive measure stuff. Masters of such vessels are required to report to their company and destination port authorities, if their crew are unwell, experience respiratory symptoms (e.g. cough, runny nose, shortness of breath) or feel feverish. They should also make the necessary arrangements to seek medical attention.

Director of Naval Agency of Republic of Moldova
Igor ZAHARIA

Ex: Vadim Pavalachi
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Circular Letter No.4204/Add.2  
21 February 2020

To: All IMO Member States  
United Nations and specialized agencies  
Intergovernmental organizations  
Non-governmental organizations in consultative status with IMO

Subject: Joint Statement IMO-WHO on the Response to the COVID-19 Outbreak

The Director-General of WHO and the Secretary-General of IMO have jointly issued the attached statement to assist States in ensuring that health measures are implemented in ways that minimize unnecessary interference with international traffic and trade.

Member States and international organizations are encouraged to disseminate this joint statement as widely as possible.

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A Joint Statement on the Response to the COVID-19 Outbreak
- 13 February 2020 -

On 31 December 2019, the first outbreak of what has now become known globally as the novel coronavirus (COVID-19) was reported in Wuhan City, Hubei Province of the People’s Republic of China. On 9 January 2020, Chinese authorities reported in the media that the cause of this viral pneumonia was initially identified as a new type of coronavirus, which is different from any other human coronaviruses discovered so far.

Following the advice provided by the Emergency Committee convened under the International Health Regulations (IHR) (2005) on 30 January 2020, the Director-General of the World Health Organization (WHO) declared the outbreak of COVID-19 to be a Public Health Emergency of International Concern (PHEIC) and issued a set of Temporary Recommendations.

WHO is working closely with global experts, governments and partners to rapidly expand scientific knowledge on this new virus, to track the spread and virulence of the virus, and to provide advice to countries and the global community on measures to protect health and prevent the spread of this outbreak. Based on recommendations developed by the WHO, the International Maritime Organization (IMO) has issued Circular Letter No.4204 of 31 January 2020 to provide information and guidance on the precautions to be taken to minimize risks to seafarers, passengers and others on board ships from the novel coronavirus (COVID-19).

Following the advice of the Emergency Committee, the WHO Director General did not recommend any travel or trade restriction. Countries are stepping up their efforts in line with WHO’s recommendations for preparedness and response to this public health risk. At the same time, additional measures are being adopted by countries, ranging from delayed port clearance or refusal of entry, which may cause severe disruption of international maritime traffic, in particular affecting ships, their crews, passengers and cargo.

WHO is working in close consultation with IMO and other partners to assist States in ensuring that health measures be implemented in ways that minimize unnecessary interference with international traffic and trade.

In this connection, WHO and IMO call upon all States to respect the requirements of “free pratique” for ships (IHR (2005) article 28) and the principles of proper care for all travelers and the prevention of unnecessary delays to ships and to persons and property on board, while recognizing the need to prevent the introduction or spread of disease.

IHR States Parties have committed to providing a public health response to the international spread of disease “in ways that are commensurate with and restricted to public health risks, and which avoid unnecessary interference with international traffic and trade”. Further, IMO’s Convention on the Facilitation of Maritime Traffic (commonly known as the “FAL Convention”) states that non-Parties to the IHR shall endeavor to apply the IHR to international shipping.
Accordingly, measures interfering with international maritime traffic are subject to provisions of the IHR (2005), including the specific requirements set out in Article 43. Further, it is essential that States Parties implement the IHR with full respect for the dignity, human rights and fundamental freedoms of everyone, as stated in Article 3(1). The principles of avoiding unnecessary restrictions or delay on port entry to ships, persons and property on board are also embodied in Articles 1 and V and section 6 of the annex of the FAL Convention. IHR and IMO regulations must be applied in a consistent manner to secure their common objectives.

In particular, flag State Authorities, port State authorities and control regimes, companies and ship masters should cooperate, in the current context of the outbreak, to ensure that where appropriate, passengers can be embarked and disembarked, cargo operations can occur, ships can enter and depart shipyards for repair and survey, stores and supplies can be loaded, and crews can be exchanged.

The World Health Organization and the International Maritime Organization stand ready to assist and support countries and the maritime industry in responding to the challenges to shipping posed by the current outbreak of novel coronavirus.

Tedros Adhanom Ghebreyesus  
Director-General  
World Health Organization

Kitack Lim  
Secretary-General  
International Maritime Organization
Circular Letter No.4204/Add.3
2 March 2020

To: All IMO Member States
    United Nations and specialized agencies
    Intergovernmental organizations
    Non-governmental organizations in consultative status with IMO

Subject: Operational considerations for managing COVID-19 cases/outbreak on board ships

The Secretary-General of IMO has received the attached guidance on "Operational considerations for managing COVID-19 cases/outbreak on board ships" prepared by WHO.

Member States and international organizations are encouraged to disseminate the guidance to all parties concerned as widely as possible.

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Operational considerations for managing COVID-19 cases and outbreaks on board ships

Interim guidance
24 February 2020

Introduction
This document has been prepared based on current evidence about the transmission of 2019 coronavirus (previously named 2019-nCoV, now designated COVID-19) disease — that is, human-to-human transmission via respiratory droplets or direct contact with an infected individual.

It is recommended that this guidance be used with the World Health Organization (WHO) Handbook for management of public health events on board ships [1].

The target audience for this document is any authority involved in the public health response to a COVID-19 public health event on board a ship, including International Health Regulations (IHR) National Focal Points (NFPs), port health authorities, and local, provincial and national health surveillance and response systems, as well as port operators and ship operators.

Outbreak management plan for COVID-19 disease
Passenger ships sailing on an international voyage are advised to develop a written plan for disease outbreak management that covers the definitions of a suspected case of COVID-19 disease, the definition of close contacts and an isolation plan. The outbreak management plan should include descriptions of the following:
- the location or locations where suspected cases will be isolated individually until disembarkation and transfer to a healthcare facility;
- how the necessary communications between departments (for example, medical, housekeeping, laundry, room service) about persons in isolation will be managed;
- the clinical management of suspected cases while they remain on board;
- cleaning and disinfection procedures for potentially contaminated areas, including the isolation cabins or areas;
- how close contacts of the suspected case will be managed;
- procedures to collect Passenger/Crew Locator Forms (PLF);
- how food service and utensils, waste management services and laundry will be provided to the isolated travellers.

Staff on board should have knowledge of the outbreak management plan and should implement it as required.
Prior to boarding

Pre-boarding information
Passengers and crew members should receive information in accordance with WHO's advice for international traffic in relation to the outbreak of COVID-19 disease. This advice and guidance is available at https://www.who.int/health-topics/coronavirus.

Pre-disembarkation information
Until the termination of the COVID-19 public health emergency of international concern is declared, it is recommended that all passengers and crew members complete their PLF, and this should be kept on board for at least 1 month after their disembarkation. Information in the completed PLF should be provided upon request to health authorities to facilitate contact tracing if a confirmed case is detected after disembarkation or after the voyage has ended.

Pre-boarding screening
Until the termination of the COVID-19 outbreak, passenger ships on an international voyage are advised to provide passengers with general information on COVID-19 disease and preventive measures and to implement pre-boarding screening with the purpose of deferring or rescheduling the boarding of any traveller identified through a questionnaire (Annex 1) as being a close contact of someone with COVID-19 disease to ensure proper management by port health authorities.

A contact is a person involved in any of the following:
- providing direct care to a patient with COVID-19 disease, visiting patients or staying in the same environment as a COVID-19 patient;
- working in close proximity to or sharing a cabin or room with a patient with COVID-19 disease;
- travelling with a COVID-19 patient in any kind of conveyance;
- living in the same household as a patient with COVID-19 disease within 14 days after the patient's onset of symptoms (2).

Education
Ship owners should provide guidance to the crew about how to recognize the signs and symptoms of COVID-19 disease.

Crew should be reminded of the procedures that are to be followed when a passenger or a crew member on board displays signs and symptoms indicative of acute respiratory disease.

Country-specific guidance for crew members about prevention measures may be available, such as that at https://www.cdc.gov/quarantine/maritime/recommendations-for-ships.html (3).

Additional guidance is available in WHO's interim guidance about home care for patients with suspected COVID-19 infection who have mild symptoms and how to manage their contacts (4) and about the use of medical masks (5).

Healthcare staff on board ships should be informed and updated about the outbreak of COVID-19 disease and any new evidence and guidance available for healthcare staff. WHO's updated information is available at https://www.who.int/ emergencies/diseases/novel-coronavirus-2019/technical-guidance.
Managing a suspected case on board a ship

Definition of a suspected case

A suspected case is:

A. a patient with severe acute respiratory infection (that is, fever and cough requiring admission to hospital) AND with no other aetiology that fully explains the clinical presentation AND a history of travel to or residence in China or in another country with established community transmission\(^1\) of COVID-19 disease during the 14 days prior to symptom onset.

OR

B. a patient with any acute respiratory illness AND at least one of the following during the 14 days prior to symptom onset: (a) contact with a confirmed or probable case of COVID-19 disease or (b) working in or visiting a healthcare facility where patients with confirmed or probable COVID-19 disease were being treated.

Activating the outbreak management plan

If it is determined that there is a suspected case of COVID-19 disease on board, the outbreak management plan should be activated. The suspected case should be immediately instructed to wear a medical mask, follow cough etiquette and practice hand hygiene; the suspected case should be isolated in a predefined isolation ward, cabin, room or quarters, with the door closed. Infection control measures should be applied in accordance with WHO guidance (2, 6). The disembarkation and transfer of the suspected case to an onshore healthcare facility for further assessment and laboratory testing should be arranged as soon as possible in cooperation with the health authorities at the port.

In addition to the medical personnel providing health care, all persons entering the isolation area should be appropriately trained prior to entering that area, should apply standard precautions and contact and droplet precautions as described in WHO’s guidance for infection control (6).

Obligations of ship owners

In accordance with the IHR (2005), the master of the ship must immediately inform the port health authority at the next port of call about any suspected case of COVID-19 disease (7). For ships on an international voyage, the Maritime Declaration of Health should be completed and sent to the port authority in accordance with local requirements at the port of call.

Ship owners must facilitate the use of health measures and provide all relevant public health information requested by the health authority at the port. Ship operators shall provide to the port health authorities all essential information (that is, PLFs, the crew list, and the passenger

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\(^1\) Widespread community transmission is defined as being "evidenced by the inability to relate confirmed cases through a chain of transmission or by increasing positive tests through routine screening of sentinel samples (i.e., samples unconnected to any known chain of transmission).

list 3) to conduct contact tracing when a confirmed case of COVID-19 disease has been identified on board or when a traveller who has been on board and possibly was exposed during the voyage is diagnosed as a confirmed case after the end of the voyage.

Disembarkation of suspected cases
During the disembarkation of suspected cases, every effort should be made to minimize the exposure of other persons and the environment to contamination. Suspected cases should be provided with a surgical mask to minimize the risk of transmission. Staff involved in transporting suspected cases should apply infection control practices by following WHO’s guidance (5, 6). These practices are summarized below.

- When loading patients into the ambulance, transport staff, including medical staff, should routinely perform hand hygiene and wear a medical mask, eye protection (goggles or a face shield), a long-sleeved gown and gloves.
- Personal protective equipment (PPE) should be changed after loading each patient and disposed of appropriately in containers with a lid and in accordance with national regulations for disposing of infectious waste.
- The driver of the ambulance must remain separate from the cases (keeping at least 1 m distance). No PPE is required if distance can be maintained or a physical separation exists. If drivers must also help load the patients into the ambulance, they should follow the PPE recommendations in the previous point.
- Transport vehicles must have as high a volume of air exchange as possible (for example, by opening the windows).
- Transport staff should frequently clean their hands with an alcohol-based hand rub or soap and water and ensure that they clean their hands before putting on PPE and after removing it.
- Ambulances and transport vehicles should be cleaned and disinfected, with particular attention paid to the areas in contact with the suspected case. Cleaning should be done with regular household soap or detergent first and then, after rinsing, regular household disinfectant containing 0.5% sodium hypochlorite (that is, equivalent to 5000 ppm or 1 part bleach to 9 parts water) should be applied.

Notification and reporting requirements for WHO State Parties
The authority at the port must inform immediately its IHR NFP if a suspected case of COVID-19 disease has been identified. When the laboratory testing has been completed and if the suspected case is positive for the virus that causes COVID-19 disease, then the IHR NFP shall inform WHO.

The IHR NFP will pay attention to IHR Article 43 that concerns additional health measures, which states that State Parties implementing any additional health measure that significantly interferes with international traffic (such as refusal of entry or departure of international travellers and/or ships, or their delay for more than 24 hours) shall provide to WHO the public health rationale for and relevant scientific information about it.

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Managing contacts
In order to avoid delays in implementing health measures, contact tracing should begin immediately after a suspected case has been identified on board without waiting for laboratory results. Every effort should be made to minimize the exposure of other travellers to and on-board environmental exposures of the suspected case, and close contacts must be separated from other travellers as soon as possible.

All persons on board should be assessed for their risk of exposure and classified either as a close contact with a high risk of exposure or as having a low risk of exposure.

Definition of close contacts on board a ship (high-risk exposure)
A person is considered to have had a high-risk exposure if they meet one of the following criteria:
- they stayed in the same cabin as a suspected or confirmed COVID-19 case;
- they had close contact (that is, they were within 1 m of) or were in a closed environment with a suspected or confirmed COVID-19 case –
  - for passengers, this may include participating in common activities on board the ship or while ashore, being a member of a group travelling together, dining at the same table;
  - for crew members, this includes the activities described above, as applicable, as well as working in the same area of the ship as the suspected or confirmed COVID-19 case, for example, cabin stewards who cleaned the cabin or restaurant staff who delivered food to the cabin, as well as gym trainers who provided close instruction to the case;
- they are a healthcare worker or another person who provided care for a suspected or confirmed COVID-19 case.

Follow-up with close contacts
If a large outbreak occurs as a result of ongoing transmission on board the ship, both crew members and passengers should be assessed to determine whether they were exposed to the suspected or confirmed case. If it is difficult to identify the close contacts and if widespread transmission is identified, then all travellers (that is, passengers and crew) on board the ship could be considered close contacts who have had a high-risk exposure.

Until the laboratory result for the suspected case is available, all travellers who fulfil the definition of a close contact should be asked to complete the PLF (Annex 2) and remain on board the ship in their cabins or, preferably, at a specially designated onshore facility (if feasible and when the ship is at the turnaround port where the embarkation or disembarkation of passengers or discharge or loading of cargo and stores takes place), in accordance with instructions received from the port health authorities.

If the laboratory result is positive, then all close contacts should be quarantined in specially designated onshore facilities and not allowed to travel internationally, unless this has been arranged following WHO’s advice for repatriation, which also discusses quarantine measures (8). Persons in quarantine who had close contact with a confirmed case should immediately inform health services if they develop any symptom within 14 days of their last contact with the confirmed case. If no symptoms appear within 14 days of their last exposure, the contact is no longer considered to be at risk of developing COVID-19 disease (9). The implementation of these specific precautions may be modified depending on the risk assessments for individual cases and their contacts as conducted by the public health authorities.
If the laboratory result is positive, then all other travellers who do not fulfil the definition of a close contact will be considered as having had a low-risk exposure; they should be requested to complete the PLF with their contact details and the locations where they will be staying for the following 14 days. The implementation of these precautions may be modified depending on the risk assessments conducted by the public health authorities. Further instructions may be given by the health authorities. Travellers considered to have had a low-risk exposure should be provided with information and advice about (9):

- the symptoms of COVID-19 disease and how it can be transmitted;
- the need to self-monitor for COVID-19 symptoms for 14 days from their last exposure to the confirmed case, including fever of any grade, cough or difficulty breathing;
- the need to immediately self-isolate and contact health services if any symptom appears within the 14 days. If no symptoms appear within 14 days of their last exposure, the traveller is no longer considered to be at risk of developing COVID-19 disease.

WHO’s guidance about quarantine measures can be found on the web pages about COVID-19 (https://www.who.int/health-topics/coronavirus).

Measures on board the ship

In the event that the affected ship calls at a port other than the turnaround port, the port health authority should conduct a risk assessment and may decide in consultation with the ship’s owner to end the cruise. The ship should be inspected according to Article 27 of the IHR (2005), which discusses affected conveyances, and then health measures (such as cleaning and disinfection) should be applied based on the findings of the inspection. Detailed guidance from WHO is available in the Handbook for inspection of ships and issuance of ship sanitation certificates (10). For more details about the inspection, see the section on environmental investigation in this document. Infectious waste should be disposed of in accordance with the port authority’s procedures. Health measures implemented on the ship should be noted in the Ship Sanitation Certificate.

The next voyage can start after thorough cleaning and disinfection have been completed. Active surveillance should take place on board the ship for the following 14 days. Additionally, the ship’s owner could explore the possibility of starting the next voyage with a new crew on board, if this is feasible.

Cleaning and disinfection

In accordance with WHO’s guidance about infection prevention and control during health care when COVID-19 infection is suspected (6), medical facilities, cabins and quarters occupied by patients and close contacts of a confirmed case with COVID-19 disease should be cleaned and disinfected daily, and cleaning and disinfection should be carried out after they have disembarked. The remainder of the ship should also be cleaned and disinfected, particularly when an outbreak occurs.

Detailed information about cleaning and disinfecting cabins can be found in WHO’s interim guidance about home care for patients with suspected COVID-19 infection and how to manage their contacts (4).

Laundry, food service utensils and waste from the cabins of suspected cases and their contacts should be handled as if infectious and according to the outbreak management plan provided on board for other infectious diseases (for example, for norovirus gastroenteritis).
It is essential that the ship remains at the port for the time required to thoroughly clean and disinfect it.

A ship that is considered to have been affected shall cease to be regarded as such when the port health authority is satisfied with the health measures undertaken and when there are no conditions on board that could constitute a public health risk (7).

Outbreak Investigation
Efforts to control the COVID-19 epidemic focus on containing the disease and preventing new cases. On board ships it is essential to identify the most likely mode or modes of transmission and the initial source or sources of the outbreak. Because the outbreak may have international ramifications, on large ships, including cruise ships that carry nationals from many countries or areas, the outbreak investigation requires coordinated efforts.

Article 6 of IHR (2005) provides that a State Party shall communicate to WHO all timely, accurate and sufficiently detailed public health information available to it about the notified event (such as case definitions, laboratory results, source and type of the risk, number of cases and deaths, conditions affecting the spread of the disease, and the health measures employed) and report, when necessary, the difficulties faced in responding to the public health emergency of international concern and the support needed (7).

Epidemiological Investigation
The field investigation team should take all necessary precautions and use PPE appropriately to avoid becoming infected.

For close contacts, the analyses should consider the following risk factors, where applicable: who shared cabins, their companions, groups travelling together, and their participation in onshore activities; the restaurants and bars they attended, seating arrangements at meals based on reservation lists, buffet service seating locations (schematics); participation in on-board events or in the ship's public areas (such as the gym, theatre, cinema, casino, spa, recreational water facilities); the deck of the cabin where the cases and contacts stayed; and the fire zone and air handling units. Records to be reviewed and considered in the investigation are the ship manifest, the ship schematics, cabin reservation lists, activities reservation lists, records of vomiting incidence, accidental faecal release records for pools, dining reservation lists, medical logs of passengers and crew with gastrointestinal issues, cabin plans, the cabin stewards assigned to each cabin and their shifts, and any records about the demographic characteristics of the travellers. The minimum data requirements that should be collected are included in the Public Health Passenger/Crew Locator Form (Annex 2).

Environmental Investigation
A focused inspection should be conducted to assess whether the isolation procedures and other measures on board the ship were applied properly, sufficient PPE supplies were available and staff were trained in the use of PPE. Housekeeping, cleaning and disinfection procedures (such as protocols, products, concentrations, contact times, use of PPE, mixing processes) and the frequency of cleaning and disinfection (especially of areas that are frequently touched) should be checked during the inspection. The focused inspection should also determine whether any crew might have been working while symptomatic, including food handlers, housekeeping staff and spa staff.

If feasible, samples from environmental surfaces and materials could be collected and sent to a laboratory for testing both before and after the cleaning and disinfection procedures are completed. Staff should be trained to use PPE to avoid becoming infected. The following
environmental samples could be collected: surface swabs from cabins where cases stayed, frequently touched surfaces in public areas, and food preparation areas, including pantries close to the cabins of affected travellers; air from cabins where cases stayed and medical rooms where cases were isolated; air from the sewage treatment unit exhaust and engine exhaust; air ducts; air filters in the air handling units of the cabin; and sewage and recreational water buffer tanks.

Acknowledgements

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References


Annex 1
Sample pre-boarding questionnaire
The questionnaire is to be completed by all adults prior to embarkation.

Name as shown in the passport:

- 

Names of all children travelling with you who are under 18 years old:

- 
- 
- 
- 

Questions
Within the past 14 days

- have you, or has any person listed above, had close contact with anyone diagnosed as having coronavirus disease (COVID-19)?
- have you, or has any person listed above, provided care for someone with COVID-19 disease or worked with a healthcare worker infected with COVID-19 disease?
- have you, or has any person listed above, visited or stayed in close proximity to anyone with COVID-19 disease?
- have you, or has any person listed above, worked in close proximity to or shared the same classroom environment with someone with COVID-19 disease?
- have you, or has any person listed above, travelled with a patient with COVID-19 disease in any kind of conveyance?
- have you, or has any person listed above, lived in the same household as a patient with COVID-19 disease?
Annex 2
Public Health Passenger/Crew Locator Form

Cruise Information:
1. Cruise Line name
2. Cruise ship name
3. Cabin Number
4. Date of disembarkation

Personal Information:
5. Last (Family) Name
6. First (Given) Name
7. Middle Initial
8. Your sex
   Male ☐ Female ☐

Phone Numbers (where you can be reached if needed, include country code and city code):
9. Mobile
10. Business
11. Home
12. Other

Permanent Address:
13. Email Address
14. Number and street (separate number and street with street box)
15. Apartment number
16. City
17. State/Province
18. Country
19. Postal code

Temporary Address: If in the next 14 days you will not be staying at the permanent address listed above, write the place you will be staying.
20. Last (Family) Name
21. First (Given) Name
22. Number and street (separate number and street with street box)
23. Apartment number
24. City
25. State/Province
26. Country
27. Postal code

Emergency Contact Information of someone who can reach you during the next 30 days:
28. Last (Family) Name
29. First (Given) Name
30. City
31. Phone
32. Other phone

Travel Companions - Family: Only include age if younger than 18 years:
24. Last (Family) Name
   1. First (Given) Name
      Cabin number
      Age

Travel Companions - Non-Family: Also include name of group (if any):
25. Last (Family) Name
   1. First (Given) Name
      Group (e.g., room, business, other):

   2. First (Given) Name
Circular Letter No.4204/Add.4

5 March 2020

To: All IMO Member States
United Nations and specialized agencies
Intergovernmental organizations
Non-governmental organizations in consultative status with IMO

Subject: ICS Coronavirus (COVID-19) Guidance for ship operators for the protection of the health of seafarers

The Secretary-General has received the attached Coronavirus (COVID-19) Guidance for ship operators for the protection of the health of seafarers, prepared by the International Chamber of Shipping in response to the coronavirus outbreak. Member States and international organizations are invited to make use of the Guidance, as they see fit, and circulate it to all interested parties, as deemed appropriate.

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Coronavirus (COVID-19)
Guidance for Ship Operators for the Protection of the Health of Seafarers

Version 1.0 – 3 March 2020
Coronavirus (COVID-19)
Guidance for Ship Operators for the Protection of the Health of Seafarers

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The International Chamber of Shipping (ICS) is the global trade association representing national shipping associations from Asia, the Americas and Europe and more than 80% of the world merchant fleet.

Established in 1921, ICS is concerned with all aspects of maritime affairs particularly maritime safety, environmental protection, maritime law and employment affairs. ICS enjoys consultative status with the UN International Maritime Organization (IMO).
Coronavirus (COVID-19)
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Version 1.0 – 3 March 2020
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Coronavirus (COVID-19)
Guidance for Ship Operators for the Protection of the Health of Seafarers

1 Introduction

In response to the current coronavirus (COVID-19) outbreak, this Guidance has been produced by the International Chamber of Shipping (ICS) to support all types of ships which operate in international waters. The purpose is to help shipping companies follow advice provided by United Nations agencies including the World Health Organization (WHO), the International Maritime Organization (IMO) and the International Labour Organization (ILO), as well as the European Centre for Disease Prevention and Control (ECDC).

COVID-19 - a virus which can lead to respiratory disease and pneumonia - was first reported in December 2019 in Wuhan, China. More than 90,000 cases have been reported at the time of going to print, including several thousand deaths. While most of these have been concentrated in China, the virus now appears to be spreading globally. No vaccine is currently available, and the focus of health authorities worldwide has been containment of the virus through preventative measures to limit and slow down widespread transmission.

The WHO has declared the outbreak a Public Health Emergency of International Concern under the WHO International Health Regulations (IHR).

This severe public health challenge requires close co-operation between governments and shipping companies engaged in maritime trade, in order to protect the health of seafarers (and passengers) as well as the general public.

ICS is grateful for the support of the following organisations in preparing this Guidance: IMO, ILO, WHO, International Maritime Health Association (IMHA), European Centre for Disease Prevention and Control (ECDC), Mediterranean Shipping Company S.A. (MSC) and Wilhelmsen Ships Service.
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2 Port Entry Restrictions

WHO, as at 3rd March 2020, has not currently recommended any international travel or trade restrictions, and according to the IHR (and other international regulations) ships shall not be refused free pratique by the IHR state parties for public health reasons, i.e. permission to enter a port, embark or disembark discharge or load cargo or stores. The IHR states Parties may subject granting free pratique to inspection, and, if a source of infection or contamination is found on board, conduct necessary, disinfection, decontamination, dissection or deratting, or other measures necessary to prevent spread of the infection or contamination.

The WHO IHR can be available at www.who.int/ihr/publications/i9789241580496/en/

Nevertheless, many governments have now introduced national and local restrictions including:

- Delayed port clearance;
- Prevention of crew or passengers from embarking or disembarking (preventing shore leave and crew changes);
- Prevention of discharging or loading cargo or stores, or taking on fuel, water, food and supplies; and
- Imposition of quarantine or refusal of port entry to ships (in extreme cases).

While such measures can severely disrupt maritime traffic - and may well be in breach of the IHR, the Convention on Facilitation of International Maritime Traffic (FAL Convention) and other maritime principles regarding the rights and treatment of seafarers and passengers - the reality is that shipping companies may have little choice but to adhere to these national and local restrictions due to the serious concern about COVID-19 and the potential risk to public health.

However, it is very important for port States to accept all ships (both cargo and passenger), for docking and to disembark suspected cases on board, as it is difficult to treat suspect cases on board and it could endanger others.

If any infection or contamination is found on board visiting ships, port States may take additional measures to prevent spread of the infection or contamination.

Together with flag States, companies and Masters should co-operate with port State authorities to ensure, where appropriate, that:

- Seafarers can be changed;
- Passengers can embark and disembark;
- Shore leave can continue if safe to do so;
- Cargo operations can occur;
- Ships can enter and depart shipyards for repair and survey;
- Stores and supplies can be loaded; and
- Necessary certificates and documentation can be issued.

ILO has advised that during the evolving COVID-19 outbreak, effective protection of the health and safety of seafarers must remain a priority. Under the ILO Maritime Labour Convention (MLC), flag States must ensure all seafarers on ships flying their flag are covered by adequate measures to protect their health and that they have access to prompt and adequate medical care while working on board.

Port States must ensure that any seafarers on board ships in their territory who need immediate medical care are given access to medical facilities on shore.

Wilhelmsen Ships Service has developed an interactive map on current port restrictions which is available at https://wilhelmsen.com/ships-agency/campaigns/coronavirus/coronavirus-map
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3 Protective Measures Against COVID-19 for Seafarers

Human-to-human transmission of COVID-19 is understood to occur primarily through droplets from a person with COVID-19, e.g. from coughing and sneezing, landing on objects and surfaces around the person. Other people then catch COVID-19 by touching these objects or surfaces, then touching their eyes, nose or mouth. People can also catch COVID-19 if they breathe in droplets from a person with COVID-19 who coughs, sneezes or breathes out droplets.

Seafarers (on board ship or on leave) should inform their healthcare providers if they have visited an area where COVID-19 has been reported within the past 14 days, or if they have been in close contact with someone with respiratory symptoms who has been to a place which has COVID-19.

If seafarers have fever, cough or difficulty breathing it is important to seek medical attention promptly.

When someone infected with a respiratory disease, such as COVID-19, coughs or sneezes they project small droplets containing the virus. Sneezing or coughing into hands may contaminate objects, surfaces or people that are touched. Standard Infection Protection and Control (IPC) precautions emphasise the vital importance of hand and respiratory hygiene. In particular:

- Frequent hand washing by crew (and passengers) using soap and hot water or alcohol-based (at least 65-70%) hand rub for 20 seconds;
- Avoidance of touching the face including mouth, nose and eyes with unwashed hands (in case hands have touched surfaces contaminated with the virus);
- Seafarers (and passengers) should be encouraged to cover their nose and mouth with a disposable tissue when sneezing, coughing, wiping and blowing the nose then dispose of the used tissue immediately;
- If a tissue is not available, crew should cover their nose and mouth and cough or sneeze into a flexed elbow;
- All used tissues should be disposed of promptly into a waste bin;
- Seafarers should aim to keep at least one metre (3 feet) distance from other people, particularly those that cough or sneeze or may have a fever. If they are too close, other crew members can potentially breathe in the virus; and
- Meat, milk or animal products should always be handled with care, to avoid cross-contamination with uncooked foods, consistent with good food safety practices.

It is important that seafarers should be given the time and opportunity to clean their hands after coughing, sneezing, using tissues, or after possible contact with respiratory secretions or objects or surfaces that might be contaminated.

Although face masks may provide some protection – especially if there is a risk of exposure when interacting with persons from outside the ship – the routine use of face masks is not generally recommended as protection against COVID-19. WHO advises that it is appropriate to use a mask when coughing or sneezing. If an individual is healthy, it is only necessary to wear a mask if the person is taking care of a person with the suspected COVID-19 infection.


Hand and respiratory hygiene are considered far more important.

Safety posters for ships are provided in Annex A.
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4 Outbreak Management Plan for COVID-19

Ships should develop a written outbreak management plan. Seafarers on board should have knowledge of the outbreak management plan and implement it as required.

Passengers and Seafarers should receive information in accordance with the WHO advice for international traffic regarding the outbreak of COVID-19.

Advice is available on the WHO website for COVID-19 at www.who.int/health-topics/coronavirus

5 Pre-Boarding Information

The Guidance uses information contained in the WHO Operational considerations for managing COVID-19 cases/outbreak on board ships, interim guidance 24 February 2020. It is also recommended to use this alongside the WHO Handbook for Management of Public Health Events on Board Ships.

www.who.int/publications-detail/operational-considerations-for-managing-covid-19-cases-outbreak-on-board-ships

6 Pre-boarding Screening

Until the end of the COVID-19 outbreak, all ships are advised to provide passengers and seafarers with general information on COVID-19 and its preventative measures and implement pre-boarding screening.

A sample pre-boarding Passenger Locator Form (PLF) is provided in Annex B. The purpose is to identify passengers who may need to have their boarding deferred or rescheduled and to ensure proper management by competent health authorities.

7 Information and Awareness

Ship Operators should provide guidance to crew on how to recognise the signs and symptoms of COVID-19. Crew should be reminded of the plan and procedures to follow if a passenger or crew member on board displays signs and symptoms of acute respiratory disease.

Country-specific guidance about prevention measures may be available, such as at www.cdc.gov/quarantine/maritime/recommendations-for-ships.html

Medical staff on board ships should be informed and updated about the outbreak of COVID-19 and any new evidence and guidance available. It is recommended to review the WHO website for COVID-19. Information about the use of medical masks can also be found on the website.

The posters provided at Annex A can also be used onboard to provide a gentle reminder of best practices for seafarers to adopt. They are also available for download from the ICS website at www.ics-shipping.org/free-resources
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8 Suspected Cases of Infection

If people only have mild respiratory symptoms and have not visited an area where COVID-19 has been reported within the past 14 days, or if they have been in close contact with someone with respiratory symptoms who has been to a place which has COVID-19, they should still carefully practise basic hand and respiratory hygiene and isolate themselves, if possible, until fit.

If the virus spreads more widely this definition may change, but a suspect case requiring diagnostic testing is generally considered to be:

A patient with acute respiratory illness (fever and at least one sign/symptom of respiratory disease (e.g., cough, shortness of breath), and with no other set of causes that fully explains the clinical presentation and a history of travel to or residence in a country, area or territory reporting local transmission of (COVID-19) during the 14 days prior to the onset of the symptoms.

Or

A patient with any acute respiratory illness and having been in contact with a confirmed or suspected COVID-19 case during the 14 days prior to the onset of the symptoms.

Or

A patient with severe acute respiratory infection (fever and at least one sign/symptom of respiratory disease e.g., cough, shortness of breath and requiring hospitalization and with no other set of causes that fully explain the symptoms.

Any person on board that may have been in close contact with a suspect case should be:
- Traced immediately after the suspect case is identified;
- Asked to remain on board until laboratory results of the suspect case are available (measures that apply following positive laboratory results are described below); and
- Categorised as either contacts with high risk exposure or with low risk exposure.

Further guidance can be found at

All persons on board that fulfil the definition of a 'close contact' (see below) should be asked to complete a PLF (see Annex B) and remain on board the ship in their cabins or preferably at a specially designated facility ashore (if feasible and in case that the ship is at the turnaround port where embarking/disembarking passengers or discharging/loading cargoes/stone takes place), in accordance with instructions received by the competent health authorities, until the laboratory result for the suspect case is available. Persons on board who do not fulfil the definition of a 'close contact' will be considered as having low risk exposure and should:
- Be requested to complete PLFs with their contact details and the locations where they will be staying for the following 14 days;
- Be provided with the following information and advice on the details of symptoms and how the disease can be transmitted;
- Be asked to self-monitor for COVID-19 symptoms, including fever of any grade, cough or difficulty breathing, for 14 days from their last exposure; and
- Be asked to immediately self-isolate and contact health services in the event of any symptom appearing within 14 days. If no symptoms appear within 14 days of their last exposure, the contact person is no longer considered likely to develop COVID-19.
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9 Close Contacts (High Risk Exposure)

A 'close contact' is a person who, for example:
• Has stayed in the same cabin with a suspect/confirmed COVID-19 case;
• Has had close contact within one metre or was in a closed environment with a suspect/confirmed COVID-19 case (for passengers this may include sharing a cabin);
• Participated in common activities on board or ashore;
• Participated in the same immediate travelling group;
• Dined at the same table (for crew members this may include working together in the same ship area);
• Is a cabin steward who cleaned the cabin;
• Is restaurant staff who delivered food to the cabin;
• Is a gym trainer who provided close instruction to a case; or
• Is a medical support worker or other person providing direct care for a COVID-19 suspect or confirmed case.

Close contacts may be difficult to define on board a confined space such as a passenger ship, and if widespread transmission is identified then all persons on board could be considered as 'close contacts' having had high risk exposure.

10 Hygiene Measures for Seafarers on Ships

Ship operators should provide specific guidance and training for their seafarers regarding:
• Hand washing (using soap and hot water, rubbing hands for at least 20 seconds; one way to know how long 20 seconds is would be to silently sing "happy birthday to you!" twice);
• When hand washing is essential (e.g. after assisting an ill traveller or after contact with surfaces they may have contaminated, etc.);
• When to hand rub with an antiseptic instead of hand washing, and how to do this;
• How to cough and sneeze hygienically (e.g. using disposable tissues or a flexed elbow);
• Appropriate waste disposal;
• When and how to use masks; and
• Avoiding close contact with people suffering from acute respiratory infections.
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11 Management of Suspect Cases by Medical Support Providers

If someone on board is suspected to have COVID-19, Personal Protective Equipment (PPE) for interview and assessment may be used by medical support providers.

Key outbreak control activities will include supportive treatment, e.g. giving oxygen, antibiotics, hydration and fever/pain relief.

12 Precautions at the Ship Medical Facility

The following precautions should be taken:

- Patients must cover their nose and mouth with a tissue when coughing or sneezing; or a flexed elbow if not wearing a mask. This should be followed by performing hand hygiene with an alcohol-based hand rub (at least 65-70%) or soap and hot water for 20 seconds.
- Careful hand washing should occur after contact with respiratory secretions.
- Suspect cases must wear a medical mask once identified and evaluated in a private room with the door closed, ideally an isolation room.
- Any person, including healthcare workers, entering the room should apply appropriate precautions in accordance with the requirements of WHO infection prevention and control during healthcare when COVID-19 is suspected; and
- After preliminary medical examination, if the ship's medical officer or person responsible for the provision of medical care believes a suspect case exists, the patient should be isolated.

If the illness is not considered a suspect case but the person has respiratory symptoms, the person should still not return to any places where they will be in contact with others onboard either seafarers or passengers.

13 Laboratory Testing

Laboratory examination of clinical specimens for suspect cases should be made with the competent authorities at the port who will then inform the ship's officers about test results.
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14 Case Handling

Case handling should:
- Be initiated by the ship's medical care providers in order to detect any new suspect cases;
- Include directly contacting crew and passengers, asking about current and recent illnesses, and checking if any person meets the criteria for a suspect case; and
- Be recorded in the appropriate medical log book.

Medical care providers should:
- Ensure a suspect case is interviewed and provide information about the places they have visited within the last 14 days prior to the onset of symptoms and their contacts, including the period from one day before the onset of symptoms on board the ship or ashore; and
- Keep records regarding:
  - Anyone on board who has visited the medical facility as a suspect case and the isolation and hygiene measures taken;
  - Any close contact or casual contact with low risk exposure to monitor their health;
  - Contact details of casual contacts with low risk exposure who will disembark and the locations where they will be staying in the next 14 days (completed PLFs or Maritime Declarations of Health (MDHs), and
  - Results of active surveillance.

15 Isolation

Isolate suspect cases on board immediately and inform the next port of call of suspect cases:
- With acute respiratory infection, either a cough, sore throat, shortness of breath, whether requiring hospitalisation or not;
- Who in the 14 days before onset of symptoms met the definition of a suspect case as outlined in sections 8 and 9.

Patients should be isolated in either an isolation ward, cabin, room or quarters with precautionary measures. Anyone entering an isolation room should wear gloves, impervious gowns, goggles and medical masks.
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16 Reporting to the Next Port of Call

The competent authority of the next port of call must always be informed if there is a suspect case on board.

For ships on an international voyage, if someone has died on board the International Health Regulations (IHR) state that the MDH should be completed and sent to the competent authority in accordance with local requirements.

The Master should immediately alert the competent authority at the next port of call about any suspect case to determine if the necessary capacity to transport, isolate, and care for the individual is available.

The ship may need to proceed, at its own risk, to another nearby port if capacity is not available, or if warranted by the critical medical status of the suspect case.

After measures applied are considered by the port health authority to be completed satisfactorily, the ship should be allowed to continue the voyage. The measures taken should be recorded in the valid ship sanitation certificates. Both embarking and disembarking ports must be notified of contacts on board and any measures taken.

17 Disembarkation of a Suspect and a Confirmed Case

The ship should take the following precautions:
- Control disembarkation to avoid any contact with other persons on board;
- The patient should wear a surgical mask; and
- Personnel escorting the patient should wear suitable PPE (gloves, impermeable gown, goggles and medical mask).

The ship may proceed to its next port of call once the health authority has determined that public health measures have been completed satisfactorily in particular the measures as follows:
- Management of the suspect case or cases and close contacts;
- Completion of contact tracing forms, disembarkation of close contacts; until the termination of COVID-19 Public Health Emergency of International Concern is declared. All passengers and crew members should fill in a PLF to be kept on board for at least one month after disembarkation;
- Information in the completed PLF should be provided upon the request of health authorities to facilitate contact tracing if a confirmed case is detected after the disembarkation and after the voyage has ended;
- Information has been provided to everyone on board about the symptoms and signs of the disease and who to contact in case the relevant symptoms develop in the following 14 days; and
- Cleaning and disinfection, and disposal of infectious waste.
18 Cleaning, Disinfection and Waste Management

Maintain high level cleaning and disinfection measures during ongoing on board case management.

Patients and “close contacts” cabins and quarters should be cleaned and using cleaning and disinfection protocols for infected cabins (as per Norovirus or other communicable diseases).

Environmental surfaces should be cleaned thoroughly with hot water, detergent and applying common disinfectants (e.g. sodium hypochlorite).

Once a patient has left the ship, the isolation cabin or quarters should be thoroughly cleaned and disinfected by staff using PPE who are trained to clean surfaces contaminated with infectious agents.

Laundry, food service utensils and waste from cabins of suspect cases and contacts should be treated as infectious, in accordance with procedures for handling infectious materials on board.

There should be regular communications between departments in all ships (medical, housekeeping, laundry, room service, etc) about the persons in isolation.

19 Management of Contacts of a Suspect Case

Port health authorities will conduct risk assessments to identify all contacts, and issue instructions to follow until laboratory results are available.

All close contacts should either complete PLs or MDs and remain in their cabins or at a facility ashore and follow the competent authority’s instructions until laboratory results are available. The forms should contain contact details and locations where the suspect case will stay for the following 14 days.

All close contacts should be informed about the suspect case on board.

If the laboratory examination results are positive:
- All close contacts should be quarantined for 14 days; and
- The patient should disembark and be isolated ashore in accordance with the competent authority’s instructions.

Quarantine measures should follow WHO guidance of considerations for quarantine of individuals in the context of COVID-19 and are also likely to include:
- Active monitoring by the port health authorities for 14 days from last exposure;
- Daily monitoring (including fever of any grade, cough or difficulty breathing);
- Avoiding social contact and travel; and
- Remaining reachable for active monitoring.

Contacts of a confirmed case should immediately self-isolate and contact health services if symptoms appear within 14 days of last exposure. If no symptoms appear, the contact is not considered at risk.

Implementation of specific precautions may be modified following risk assessment of individual cases and advice from port health authorities.
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20 Supplies and Equipment

Flag States regulate medical supply carriage requirements. Plentiful supplies and equipment should be available to handle an outbreak as described in the International Medical Guide for Ships 3rd edition. Reviewing the latest WHO suggested list of supplies for COVID-19, the International Maritime Health Association (IMHA) has advised that most equipment should already be on board. However, WHO also recommends other equipment that is unlikely to already be on board which IMHA suggest could be provided by a port health authority.

A table is attached at Annex C outlining the supplies and equipment required in a situation of COVID-19. This is based on information provided by WHO and the IMHA.

www.who.int/publications-detail/disease-commodity-package---novel-coronavirus-(ncov)
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Annex A
Posters

WHO and ECDC, among others, have provided advice to avoid the spread of COVID-19. To highlight their key messages and to help seafarers know how best to protect themselves and those they meet, ICS has produced the following three posters for ships.

The posters are also available to download from the ICS website at:
http://www.ics-shipping.org/free-resources
COVID-19
Protect yourself and others from getting sick

When coughing and sneezing, cover your nose and mouth with a tissue or a flexed elbow

Throw the tissue into a closed bin immediately after use

Clean your hands with an alcohol-based hand rub or with soap and hot water for at least 20 seconds:
- After coughing or sneezing
- When caring for the sick
- Before, during and after preparing food
- Before eating
- After toilet use
- When hands are visibly dirty

Avoid touching eyes, nose and mouth

International Chamber of Shipping
Shaping the Future of Shipping
COVID-19
Practise Food Safety

Meat products can be safely consumed if they are cooked thoroughly and properly handled during food preparation.

Do not eat sick or diseased animals.

Use different chopping boards and knives for raw meat and cooked foods.

Wash your hands with soap and hot water for at least 20 seconds between handling raw and cooked food.

International Chamber of Shipping
Shaping the Future of Shipping.
COVID-19
Stay healthy while travelling

Avoid these modes of travel if you have a fever or a cough

Eat only well-cooked food

Avoid spitting in public

Avoid close contact and travel with sick animals, particularly in wet markets

When coughing and sneezing, cover your mouth and nose with a tissue or flexed elbow. Throw the tissue into a closed bin immediately after use and clean your hands

Frequently clean your hands with an alcohol-based hand rub or with soap and hot water for at least 20 seconds

Avoid touching eyes, nose and mouth

Avoid close contact with people suffering from a fever or a cough

If wearing a face mask, be sure it covers your mouth and nose and do not touch it once on. Immediately discard single-use masks after each use and clean your hands after removing masks

If you become sick while travelling, tell crew or ground staff

Seek medical care early if you become sick, and share your history with your health provider

International Chamber of Shipping

Shaping the Future of Shipping
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Annex B
Sample Pre-Boarding Passenger Locator Form (PLF)

To be completed by any adult

Name as shown in the passport or other ID:

Names of all children travelling with you under 18 years old:

Within the past 14 days, have you, or any person listed above:

- had close contact with anyone diagnosed as having Coronavirus disease (COVID-19)?
- provided direct care for COVID-19 patients, working with healthcare workers infected with novel coronavirus?
- visited or stayed in a closed environment with any patient having Coronavirus disease (COVID-19)?
- worked together in close proximity, or sharing the same classroom environment, with a COVID-19 patient?
- traveled together with COVID-19 patient in any kind of conveyance?
- lived in the same household as a COVID-19 patient?
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Annex C
WHO COVID-19 Support and Logistics Supplies List, with availability advice provided by IMHA

<table>
<thead>
<tr>
<th>Item</th>
<th>Current</th>
<th>Already carried on board?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemicals</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antibiotics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorine</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Fever and pain medication</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Sodium lactate solution</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Alcohol based hand rub</td>
<td>Bottles of 500ml and 500ml</td>
<td>Yes</td>
</tr>
<tr>
<td>Chlorine</td>
<td>Nh2CO3, granules, flg, 0.1 to 0.3% + dosage information</td>
<td>Yes</td>
</tr>
<tr>
<td>Paracetamol</td>
<td>600mg tablets</td>
<td>Yes</td>
</tr>
<tr>
<td>Sodium lactate compound solution</td>
<td>Solution in vials with IV set and needle, 1000ml</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>PPE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Examination Gloves, EU MDD directive 90/42/EEC Category III, EU PPE Regulation 2016/425, Category III, EN 455, EN 374, ANSI/SEA 105, ASTM D4969, or equivalent standards</td>
<td>Nitrile, powder-free, non-sterile. Cuff length preferably reaching above the wrist; eg., minimum 250mm total length; Sizes S, M, L. Please contact supplier for availability.</td>
<td>Yes</td>
</tr>
<tr>
<td>Surgical Gloves, EU MDD directive 90/42/EEC Category III, EU PPE Regulation 2016/425, Category III, EN 455, EN 374, ANSI/SEA 105, ASTM D4969, or equivalent standards</td>
<td>Nitrile, powder-free, single use. Gloves should have long cuffs, reaching well above the wrist, ideally to mid-forearm. (Sizes L-XL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Gloves, cleaning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impermeable gloves single use</td>
<td>Disposable, length and cuff: EU PPE Regulation 2016/425 and EU MDD directive 90/42/EEC-FAA class I or II medical device, or equivalent, EN 13795/2006, any performance level, or AAMI PD9030.7:2012 acceptable, or equivalent.</td>
<td>Yes, but check supplies are plentiful</td>
</tr>
<tr>
<td>Scrubs: Tunic/cape</td>
<td>Woven, cotton, reusable or single-use, short-sleeved (rounded or triangular), worn underneath the coveralls or gown.</td>
<td>Yes, but check supplies are plentiful</td>
</tr>
<tr>
<td>Scrubs: Trouser/pants</td>
<td>Woven, cotton, reusable or single-use, short-sleeved (rounded or triangular), worn underneath the coveralls or gown.</td>
<td>Yes, but check supplies are plentiful</td>
</tr>
<tr>
<td>Apron</td>
<td>Heavy duty, straight apron with bib, fabric 100% polyester with PVC coating, or 100% PVC, or PVC rubber, or other fluid resistant coated material. Waterproof, seams treated for liquid and heat fastening. Minimum basic weight: 150g/m². Lower edge size: 70-90 cm (width) X 80-160 cm (height).</td>
<td>Yes, but check supplies are plentiful</td>
</tr>
<tr>
<td>Goggles, protective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU PPE Regulation 2016/425, EN 166, ANSI/SEA 2017, or equivalent</td>
<td>Goggles seal with facial skin, flexible PVC frame, to easily fit all face contours with even pressure. Enclose eyes and surrounding areas. A mirror is a prerequisite, glasses ensures. Over plastic box with flip and extra replaceable and removable protective plate. Adjustable bands to secure firmly and not become loose during clinical activity.</td>
<td>Yes, but check supplies are plentiful</td>
</tr>
<tr>
<td>Surgical masks for medical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTM F2100 minimum level for equivalent</td>
<td>Good breathability, clear internal and external faces. EU MDD directive 90/42/EEC Category III, or equivalent, EN 14683 Type II, B, FFP1.</td>
<td>Yes, but check supplies are plentiful</td>
</tr>
<tr>
<td>Patient masks EN 14683 any type</td>
<td>Good breathability, clear internal and external faces</td>
<td>Yes, but check supplies are plentiful</td>
</tr>
<tr>
<td>Face shield (PPE)</td>
<td>Should be provided by Port Health Authority</td>
<td>Unlikely</td>
</tr>
</tbody>
</table>

* Currently in short supply
## Coronavirus (COVID-19)
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<table>
<thead>
<tr>
<th>Items</th>
<th>Comment</th>
<th>Already carried on board?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MEDICAL KIT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample medium and packaging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disinfectants</td>
<td>Plentiful supplies required</td>
<td>Yes</td>
</tr>
<tr>
<td>Hand hygiene supplies</td>
<td>Plentiful supplies required</td>
<td>Yes</td>
</tr>
<tr>
<td>Container</td>
<td>For disposable sharps and needles</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Guidance for ship operators for the protection of health of seafarers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gloved tubes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infection sets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nose mask</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Facial oxygen mask</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oximeter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxygen splitters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety bag and box</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Commercial testing materials for samples</strong></td>
<td>Ideally a third party should take samples for suspected cases. Specific materials needed to transport samples and to minimise infection. Should be provided by Port Health Authority?</td>
<td>Unlikely</td>
</tr>
<tr>
<td><strong>Fit test kit</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laryngoscope, with depressors and tubes</td>
<td>Should be provided by Port Health Authority</td>
<td>Unlikely</td>
</tr>
<tr>
<td>Oxygen concentrator</td>
<td>Should be provided by Port Health Authority</td>
<td>Unlikely</td>
</tr>
<tr>
<td>Portable ventilator</td>
<td>Should be provided by Port Health Authority</td>
<td>Unlikely</td>
</tr>
<tr>
<td>Portable ultrasound scanner</td>
<td>Should be provided by Port Health Authority</td>
<td>Unlikely</td>
</tr>
<tr>
<td>Resuscitator, child</td>
<td>Should be provided by Port Health Authority</td>
<td>Unlikely</td>
</tr>
<tr>
<td>Viral transport medium – to transport laboratory specimens</td>
<td>Should be provided by Port Health Authority</td>
<td>Unlikely</td>
</tr>
<tr>
<td>Viral transport medium with Swab 3ml</td>
<td>Should be provided by Port Health Authority</td>
<td>Unlikely</td>
</tr>
<tr>
<td><strong>Bio-hazardous bag</strong></td>
<td>Disposal bag for biohazardous waste. 21 x 60cm, with &quot;Biohazard&quot; print, autoclavable polypropylene, 60 or 70 litres strength.</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Carbon dioxide detector</strong></td>
<td>&quot;Disposable, volumetric, easy to use with adult endotracheal tube (or child if applicable), unlikely to be in medical cabin but usually on board a ship. If not available ask Port Health Authority to provide along with appropriate guidelines and instructions.&quot;</td>
<td>Unlikely</td>
</tr>
<tr>
<td>Endotracheal tube, without cuff</td>
<td>Open distal end and Magill type joint with an angle of 33°, standard connector fast. Ø 4.8mm at the proximal end to connect the tube to the ventilation system, radio opaque marker, Murphy’s eye, graduations, size 0 internal 2mm or 3mm material polyurethane (PU), disposable, sterile, rigid tracheostomy method, ethylene oxide gas or gamma radiation.</td>
<td>Yes</td>
</tr>
<tr>
<td>Endotracheal tube with cuff</td>
<td>Same specifications as for endotracheal tube, without cuff except size 3 internal 4.8mm, 3mm, 7mm, 9mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Hand drying tissue</td>
<td>60-100cm x 60cm</td>
<td>Yes</td>
</tr>
<tr>
<td>Infusion giving set</td>
<td>With air inlets and needles, sterile, single-use</td>
<td>Yes</td>
</tr>
<tr>
<td>Pulse oximeter</td>
<td>Compact portative device to measure arterial blood oxygen saturation (SpO2), heart rate and signal strength. Measuring range: SpO2 90 – 100% (minimum gradient 1%), heart rate 20–200 bpm (maximum gradient 10%). Line-powered, or extra battery rechargeable batteries needed at least one year. ISO 80601-2-52 2008 or equivalent.</td>
<td>Yes</td>
</tr>
<tr>
<td>Resuscitator, adult</td>
<td>To ventilate adult (Body weight &gt; 30kg), with compressible self-rising ventilation bag, capacity 15 – 2000 ml. Resuscitator operated by hand, ventilation with ambient air resuscitator shall be easy to disassemble and reassemble, is clean and discreet, and hence overall. All parts must be of high strength, long-lasting materials not requiring special maintenance or storage conditions</td>
<td>Yes</td>
</tr>
<tr>
<td>Sample collection triple packaging boxes</td>
<td>For transport as defined by the Guidance on Regulations for the Transport of Infectious Substances 2019-2023</td>
<td>Yes</td>
</tr>
<tr>
<td>Safety box</td>
<td>Needle-resistant, 21 x cardboard for incineration, box 26 Biohazard label as per MARPOL附录III</td>
<td>Yes</td>
</tr>
<tr>
<td>Stainless steel deposer sets Miller</td>
<td>Straight Ø 1 length approx. 100mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Stainless steel deposer sets Macintosh</td>
<td>Curved Ø 2, length approx. 10cm</td>
<td>Yes</td>
</tr>
<tr>
<td>Stainless steel deposer sets Macintosh</td>
<td>Curved Ø 3, length approx. 10cm</td>
<td>Yes</td>
</tr>
<tr>
<td>Stainless steel deposer sets Macintosh</td>
<td>Curved Ø 4, length approx. 10cm</td>
<td>Yes</td>
</tr>
<tr>
<td>Soap</td>
<td>Liquid (preferred), powder and bar</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Contact a telemedicine provider to assist if you have difficulty accessing any equipment.