























UNIFIED COVID-19 ALGORITHMS

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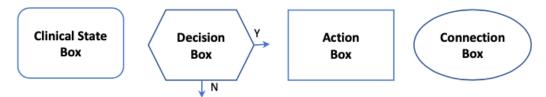
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INTRODUCTION TO ALGORITHM INTERPRETATION

The clinical algorithm (flow chart) is a text format that is specially suited for representing a sequence of clinical decisions which are intended to improve and standardize decisions in delivery of medical care. For the purpose of clarity, a typical clinical algorithm is depicted with basic symbols that represent clinical steps in decision-making:



- 1. The rectangle with rounded edges depicts the current clinical state of an individual patient;
- 2. The hexagon is a decision box which contains a question answerable by yes or no; one arrow going to the right signifies "yes", and one arrow going downwards signifies "no";
- 3. The rectangle with sharp edges depicts the action to be done; and
- 4. The oval depicts connection to another algorithm in a different page.

Note that the following algorithms are adapted from multiple guidelines as released by the World Health Organization, Department of Health, and other societies. This document was also reviewed by different experts with the end-goal of having a summarized and comprehensive compilation of guidelines that will aid in management of COVID-19 patients by healthcare workers from both the community and hospital levels.

Lastly, while these patient-centered algorithms intend to summarize and simplify recommendations, these may be subject to change as evidence emerges and guidelines are updated. Any recommendations on patient care are not absolute. Final decisions remain under the discretion of the healthcare provider.

BACKGROUND

The Unified COVID-19 Algorithms is an ongoing collaboration between volunteer facilitators, technical specialists and algorithm constructors, contributors and reviewers from different medical organizations, as well as students from the UP College of Medicine and Ateneo School of Medicine and Public Health. This release reflects evidence and policy updates, as well as medical community consensus since the call of the Health Professionals' Alliance Against COVID-19 to restrategize the country's response against COVID-19.

Each algorithm was reviewed by subject matter experts, stakeholders, as well as endusers. With the Philippine context in perspective, the algorithms provide clear guidelines for COVID-19 management from both the community and hospital levels. Algorithms also reinforce recommendations of the Department of Health with emphasis on evidence-based decision making, as well as patient-centeredness.

Work on the first version of the Unified Algorithms was started as early as March 2020 with a small team of three volunteer facilitators, four algorithm constructors, and five core medical societies convened by the Asia-Pacific Center for Evidence-Based Healthcare and hosted by the Philippine Society for Microbiology and Infectious Diseases. With support from PSMID, this expansion was carried out by the HPAAC Steering Committee through its network of volunteers. These algorithms are subject to change as evidence emerges and guidelines are updated. Recommendations on patient care are not absolute. Final decisions remain under the discretion of the healthcare provider.

As the unified algorithms are utilized, end-users are enjoined to provide feedback as to their experience with use of the algorithms in the field through: secretariat@psmid.org and hpaac.org.ph/contact or secretariat@hpaac.org.ph.

UNIFIED COVID-19 ALGORITHMS

SECTION 1: PATIENT NAVIGATION

FIGURE 1A. TRIAGE OF PATIENTS DURING THE COVID-19 PANDEMIC

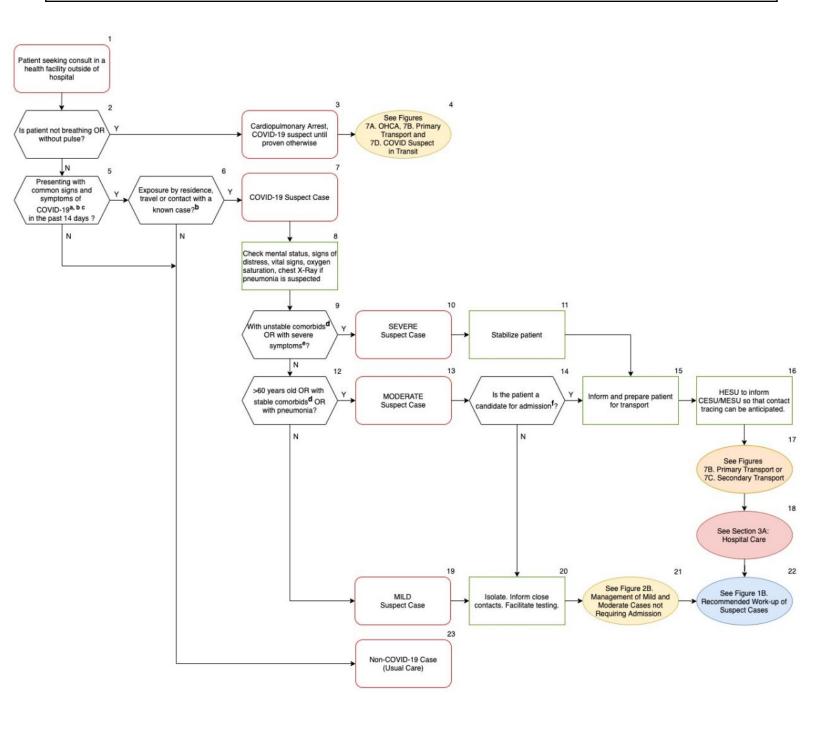


FIGURE 1A. TRIAGE OF PATIENTS DURING THE COVID-19 PANDEMIC

NOVEMBER 7. 2020

FOOTNOTE

^aClinical criteria of COVID-19 Suspect Case: (WHO Public health surveillance for COVID-19: interim guidance August 7, 2020):

- 1. Acute onset of fever and cough; OR
- 2. Acute onset of any 3 or more of common signs and symptoms of COVID-19

Common Signs and Symptoms: fever, cough, general weakness/fatigue, headache, myalgia, sore throat, coryza, dyspnea, anorexia, nausea, vomiting, diarrhea, altered mental status, anosmia, ageusia/dysgeusia

DEpidemiological criteria of COVID-19 Suspect Case: (WHO Public health surveillance for COVID-19: interim guidance August 7, 2020):
 Residing or working in an area with high risk of transmission of the virus, e.g. closed residential and camp-like settings,

- Residing or working in an area with high risk of transmission of the virus, e.g. closed residential and camp-like settings within 14 days prior to symptom onset; OR
- 2. Residing in or travel to an area with community transmission within 14 days prior to symptom onset; OR
- 3. Working in health setting, including within health facilities and within households, within 14 days prior to symptom onset.

CSevere Acute Respiratory Illness (SARI): Acute respiratory infection with history of fever or measured fever of ≥ 38C°; and cough; with onset within the last 10 days; and who requires hospitalization.

dComorbids - Underlying health condition listed below:

- Chronic lung disease
- Chronic heart disease or Hypertension
- Chronic kidney disease
- Chronic liver disease
- Chronic neurological conditions
- Diabetes
- Problems with the spleen
- Weakened immune system such as HIV or AIDS, or medicines such as steroid tablets or chemotherapy
- Morbid obesity (BMI > 40)

^eSevere Symptoms:

For adults and adolescents: any of the following:

- Altered mental state
- Severe respiratory distress
- SpO2<93% at room air, RR>30/min
- Systolic blood pressure of <90mmHg
- Other signs of shock or complications

For children: cough or difficulty in breathing plus at least one of the following:

- Central cyanosis of SpO2<90%
- Severe respiratory distress (e.g. grunting, chest indrawing)
- Signs of pneumonia with a general danger sign: inability to breastfeed or drink, lethargy/unconsciousness or convulsions
- Other signs of pneumonia may be present: fast breathing (in breaths/minute) <2 months, ≥ 60; 2-11 months, ≥50; 1-5 year. ≥40

Admission is recommended if reason for moderate classification is pneumonia or if there are other indications for admission and if the physician assessed the patient to be at high risk for severe disease.

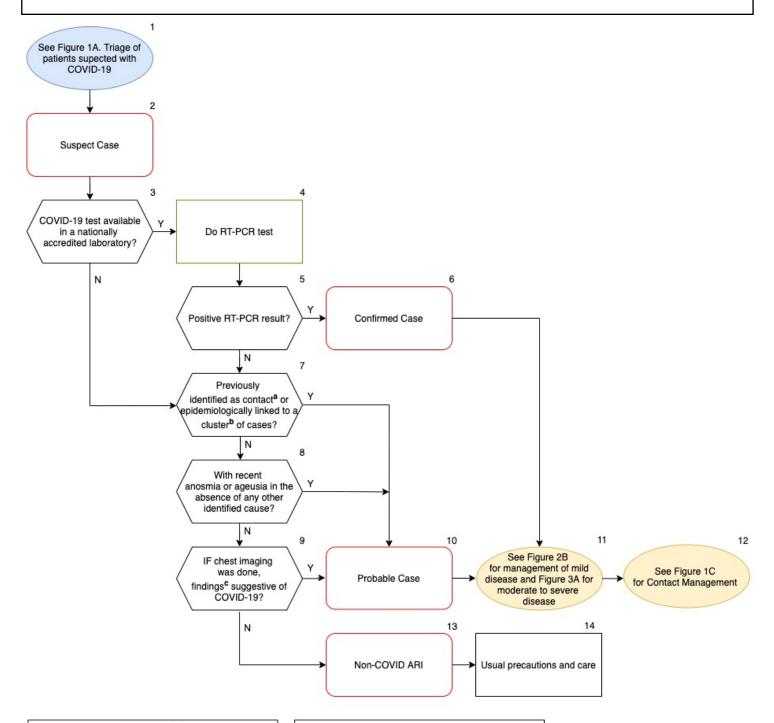
9Administer acute care for the patient while considering admission and service capability. Service capability as basis for admission can depend on multiple factors including: (1) best clinical judgement of the health provider (2) appropriateness of health care facility (3) geographical access to the next higher level facility (4) patient context.

^hContact: a person who has experienced any one of the following exposures to a probable/confirmed case during the 2 days before and the 14 days after the onset of said case:

- 1. Face-to-face contact within 1 meter and for at least 15 minutes
- 2. Direct physical contact;
- 3. Direct care without using recommended PPE; OR
- Other situations as indicated by local risk assessments.

FIGURE 1B. RECOMMENDED WORK-UP OF SUSPECT CASES

NOVEMBER 7. 2020



FOOTNOTES

aContact: a person who has experienced any one of the following exposures to a probable/confirmed case during the 2 days before and the 14 days after the onset of said case:

- Face-to-face contact within 1 metre and for at least 15 minutes
- Direct physical contact;
- 3. Direct care without using recommended PPE; OR
- 4. Other situations as indicated by local risk assessments.

bThe cluster should have at least one confirmed case.

CTypical chest imaging findings of COVID-19:

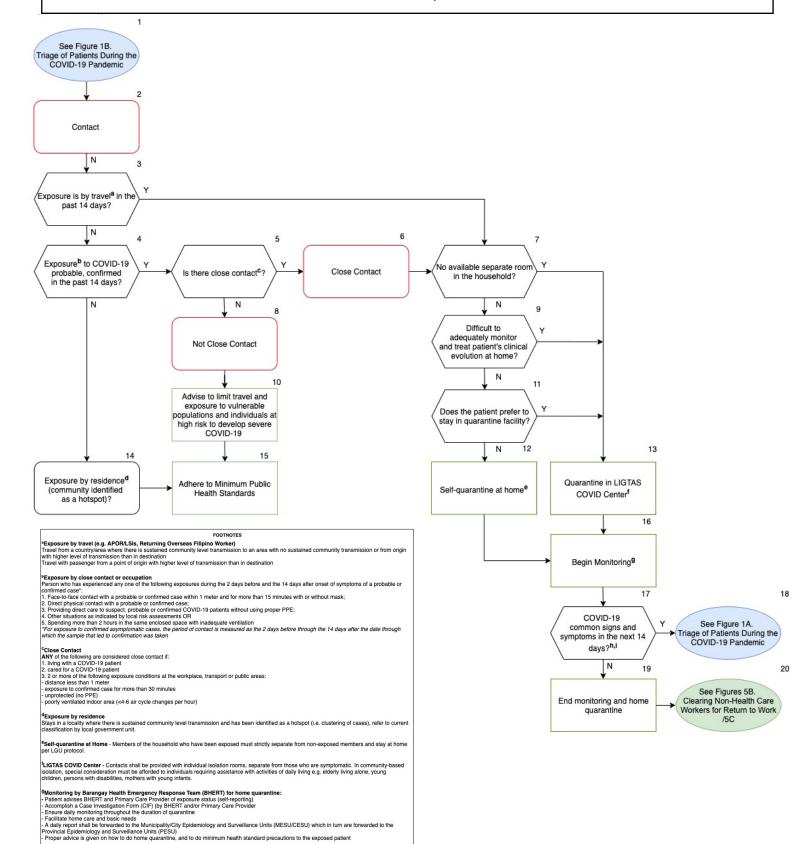
1. Chest radiography - hazy opacities, often rounded in morphology, with peripheral and lower lung distribution; Chest CT - multiple bilateral ground glass opacities, often rounded in morphology, with peripheral and lower lung distribution;

Lung ultrasound - thickened pleural lines, B lines, consolidative patterns with or without air bronchograms.

FIGURE 1C. CONTACT MANAGEMENT

(EXPOSURE BY RESIDENCE, TRAVEL, CLOSE CONTACT, OR WORKPLACE EXCLUDING HEALTHCARE WORKERS)

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COVID-19 common signs and symptoms: fever, cough, general weakness/fatigue, headache, myalgia, sore throat, coryza, dyspnea, anorexia, nausea, vorniting, diarrhea, altered mental status, anosmia, ageusia/dysgeusia.

Any person in quarantine who develops symptoms consistent with COVID-19 at any point during the quarantine period should be treated and manage as suspected case of COVID-19 and tested

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SECTION 2: PRIMARY CARE

FIGURE 2A. COMMUNITY-BASED MANAGEMENT OF ASYMPTOMATIC INDIVIDUALS WITH CONFIRMED COVID-19

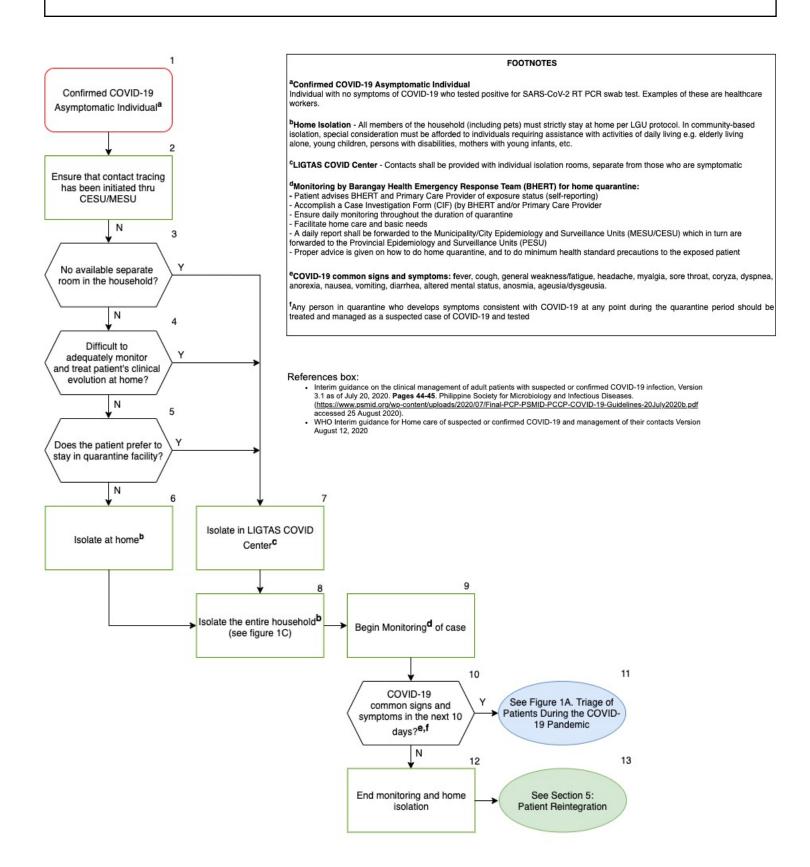


FIGURE 2B. MANAGEMENT OF MILD AND MODERATE CASES

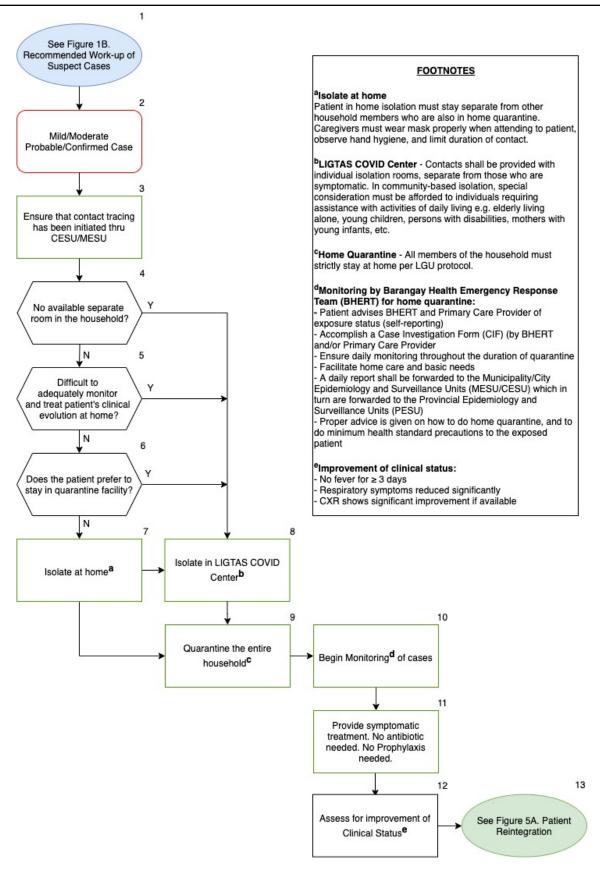
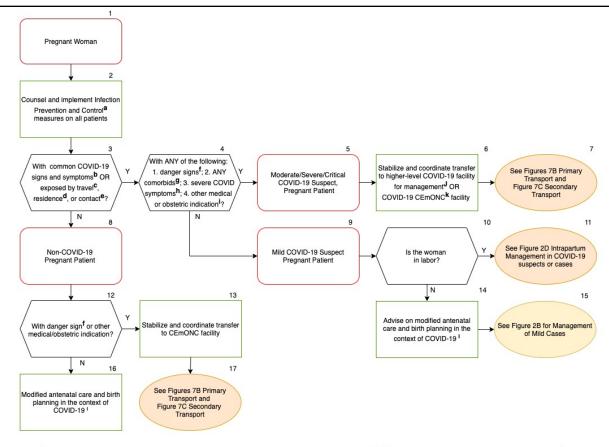


FIGURE 2C. MANAGEMENT OF PREGNANT WOMEN DURING THE **COVID-19 PANDEMIC**

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FOOTNOTES

Maternal Infection Prevention and Control (IPC)

Prior to the use of this algorithm, it is expected that the mother is already aware of and following maternal IPC

- A minimum of a face mask must be worn by or provided to the mother during delivery, postpartum, and during care of the baby
- Wash hands using soap and water before and after handling baby
- On nipple care, as long as IPC measures above are observed washing/cleaning the nipple before/after eding is discouraged

^bCommon signs and symptoms of COVID-19 fever, cough, general weakness/fatigue, headache, myalgia, sore throat, coryza, dyspnea, anorexia, nausea, yomiting, diarrhea, altered mental status, anosmia, ageusia/dysgeusia

Travel from a country/area where there is sustained community level transmission

d_{Exposure} by residence

in an LGU where there is sustained community level transmission

- 1. Providing direct care to suspect, probable, or confirmed COVID-19 patients without using proper PPE (i.e. healthcare workers):
- Leadurate workers),

 2. Face-to-face contact with a probable or confirmed case within 1 meter and for more than 15 minutes;

 3. Direct physical contact with a probable or confirmed case; OR

 4. Other situations as indicated by local risk assessments

Obstetric danger signs (DOH MNCHN MOP, 2011) 1. Swelling of legs, hands, and/or face 2. Severe headache, dizziness, blurring of vision

- Convulsion

- . Convuision . Vaginal bleeding, pale skin . Fever and Chilis . Absence or decrease in baby's movement inside the womb,
- . Severe abdominal pain
- N. Vaginal bleeding, fou! smelling/watery vaginal discharge
 Painful urination
 Too weak to get out of bed

GComorbids - Underlying health condition listed below:

- -Chronic lung disease -Chronic heart disease or Hypertension
- Chronic liver disease

roblems with the spleen

- -Chronic neurological conditions -Diabetes
- Neakened immune system such as HIV or AIDS, or medicines such as steroid tablets or chemotherapy -Morbid obesity (BMI > 40)

Severe COVID symptoms:

- Altered mental state -Shortness of breath
- SpO2<94%
- -Respiratory rate > 30/min -Systolic blood pressure of <90mmHg -Other signs of shock or complications

Examples of High-risk features

- -Preterm labor -Vaginal bleeding
- -Pre-eclampisa/eclampsia
- -Preterm pre-labor rupture of membranes (pPROM) malpresentations
- Young primigravid
- -Elderly primigravid
- -Multifetal pregnancy

- J Transporting a Patient
 Stabilize patient prior to transport: Give oxygen; Target pulse oximetry 92-95% at room air
- Require all transport personnel to wear appropriate PPE, to be removed once patient has been transferred
 ~ Stabilize patient using corresponding interventions as per BEMONC guidelines

kCEmONC.

Comprehensive Emergency Obstetrics and Newborn

Antenatal Care

-Consider modifications to standard protocols for antenata -consider modifications to standard protocols for antenate visits and procedures, depending on levels of community quarantine including use of telehealth, reducing the number of clinic visits. (DOH DM 2020-0319)

- Phone consultations recommended to minimize ex
- Antenatal care under the current situation remains the same as standard of care, provided that physical distancing and IPC measures are still followed for in-
- person meetings Emphasis on obstetric danger signs must be made during all consults, including the need to escalate care from remote healthcare to the need to transfer to health care
- Antenatal discussions should include formulation of updated birth preparedness and complication readiness plans that include when, where and how to seek

FIGURE 2D. MANAGEMENT OF COVID-19 SUSPECTS OR CASES IN **LABOR**

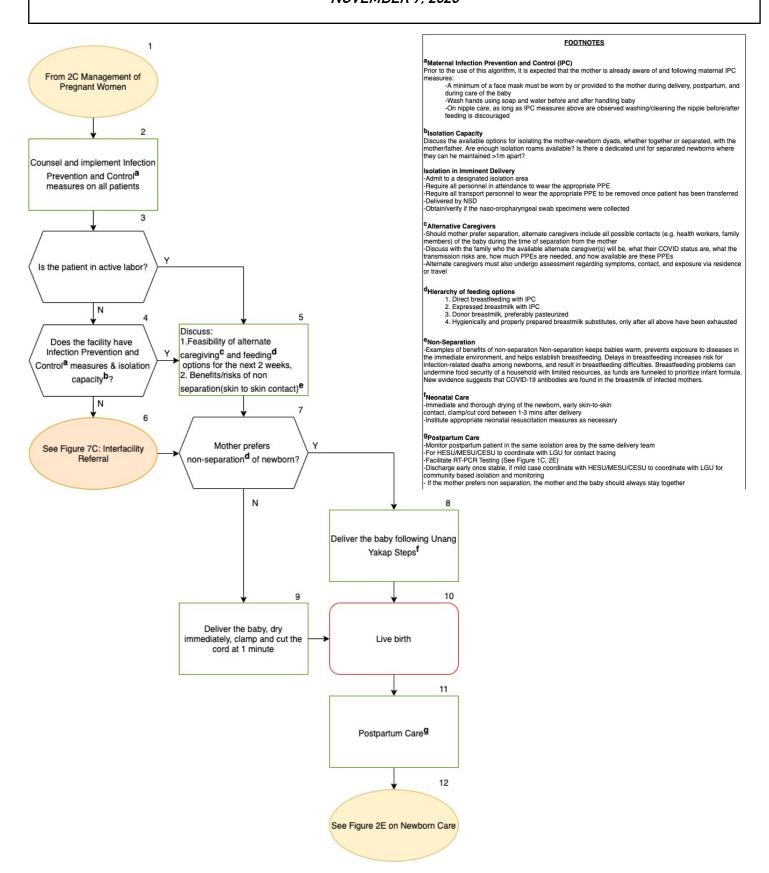
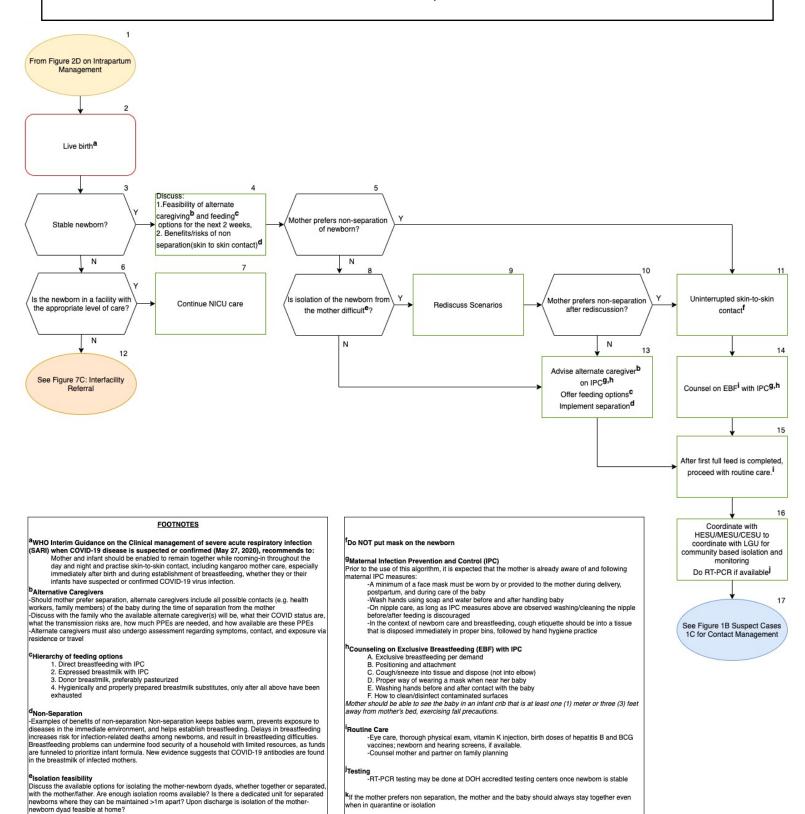


FIGURE 2E. CARE OF THE NEWBORN WHOSE MOTHER IS A PROBABLE/CONFIRMED COVID-19 WITH MILD OR NO SYMPTOMS



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SECTION 3: HOSPITAL CARE

FIGURE 3A. MANAGEMENT OF MODERATE TO SEVERE SUSPECT. PROBABLE, OR CONFIRMED COVID-19

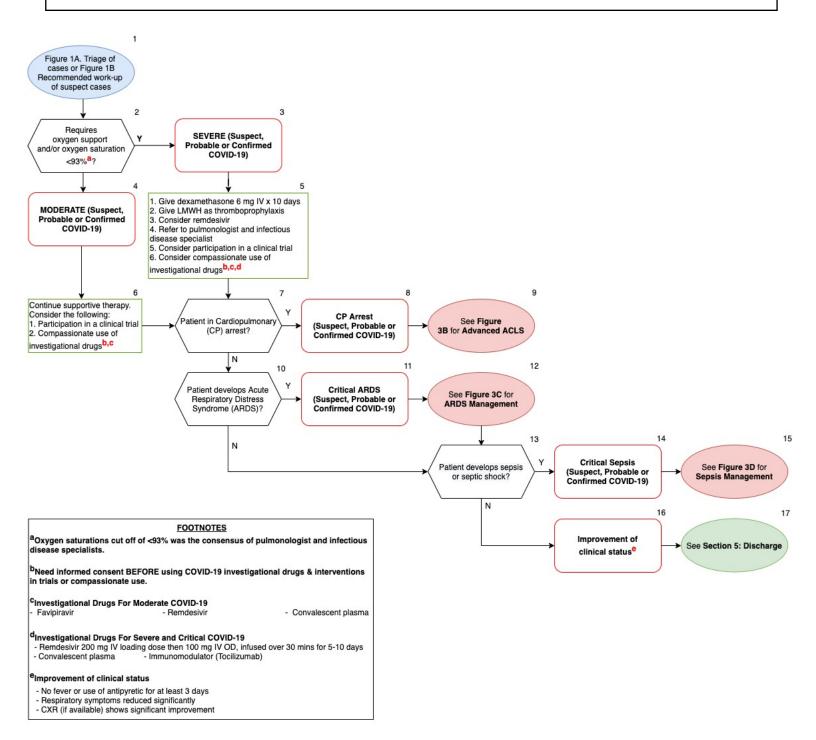


FIGURE 3B. ADVANCED CARDIAC LIFE SUPPORT FOR CASES OF COVID-19

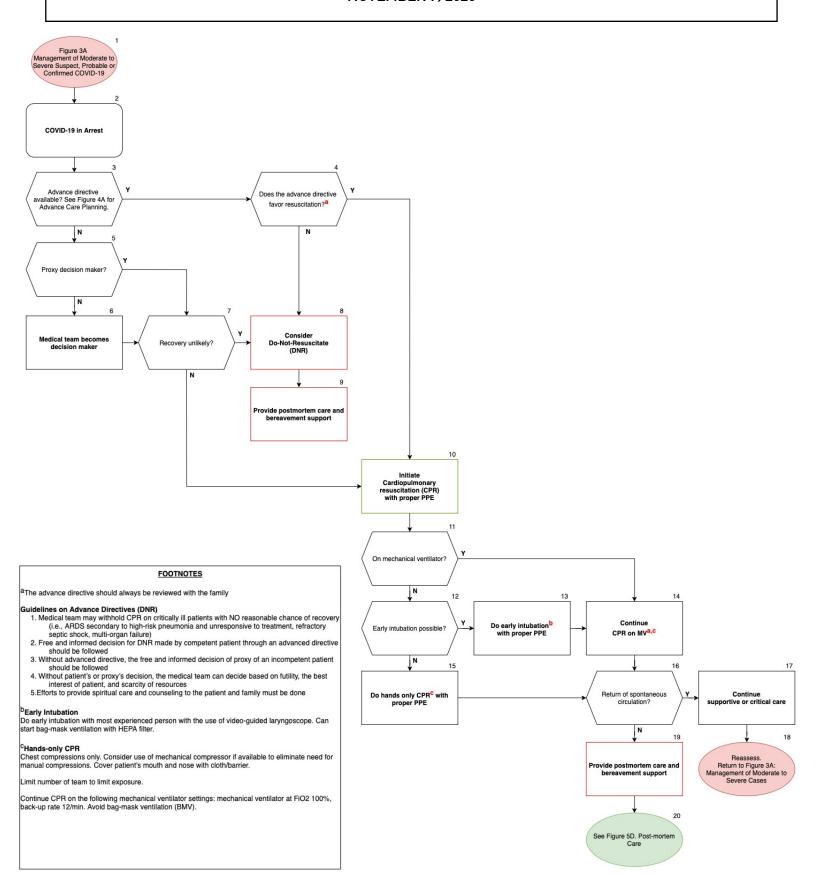
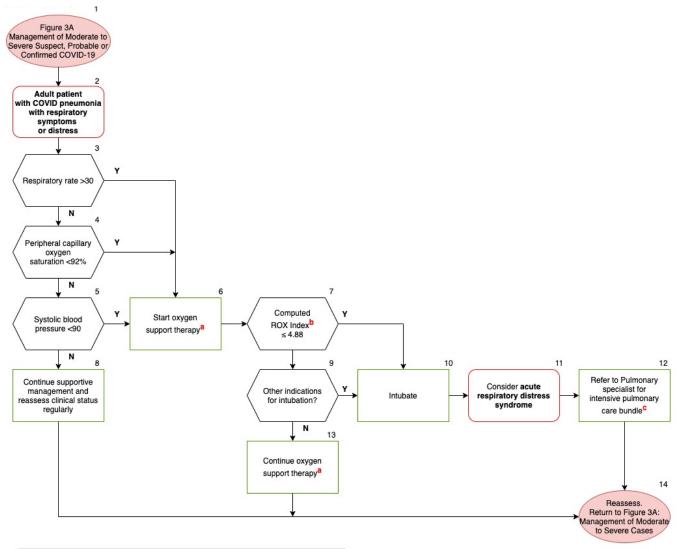


FIGURE 3C. RECOGNITION AND MANAGEMENT OF COVID-19 ACUTE **RESPIRATORY DISTRESS SYNDROME (CARDS)**

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FOOTNOTES

- Oxygen support via face mask or non-rebreather mask with hepa filter
- May use high flow nasal cannula at 40-60 L/min overlapped with a face mask and non-invasive positive pressure ventilation in a single negative pressure room
- Maintain O2St >92%

- (SpO2/FiO2)/RR
 Perform intubation if the ROX index are less than these values at the hours of checking o 2 hours - < 2.8

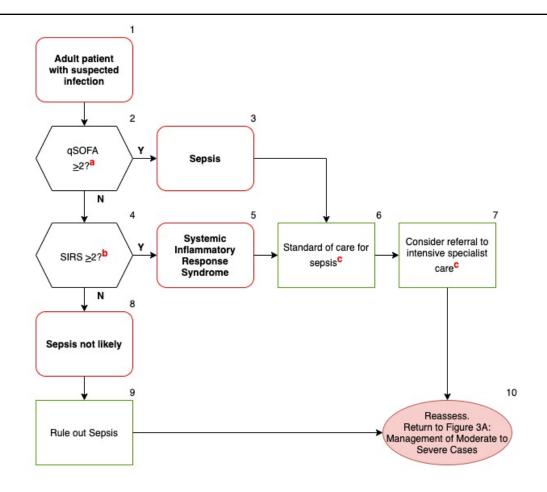
 - o 12 hours < 3.85

Intensive pulmonary care bundle

- -Airborne precautions should be followed
 o Bag-mask ventilation is not recommended, unless with hepa filter. Place patient on 6L oxygen support via nasal cannula for pre-oxygenation.
 o Avoid disconnecting patient from the ventilator
- o Nebulization is not recommended. Use metered dose inhalers.
- o Use in-line catheters for suctioning.
 o Endotracheal intubation should be performed by a trained provider using the proper PPE. Onetime intubation only using rapid sequence intubation is ideal. Use video laryngoscope if available ICU admission
- Conservative fluid management
- Give empiric antimicrobials, guided by the guidelines on Community-Acquired Pneumonia.
- Consider neuromuscular blockade in intubated patient with moderate-severe ARDS.
- Give anticoagulation therapy.
- Give dexamethasone 6 mg/day for 10 days Refer to pulmonologist or intensivist
- Initiate recruitment maneuvers and lung protection strategies
- o Tidal volume 6-8mL/kg of predicted body weight o Plateau pressure <30mmHg
- o Use lower PEEP <10mmHa
- o Consider prone positioning for >12 hours in institutions with proper training for maneuver
- o Consider extracorporeal life support
- Consider investigational drugs: remdesivir, immunomodulators (tocilizumab), hemoperfusion, convalescent plasma

FIGURE 3D. RECOGNITION AND MANAGEMENT OF SEPSIS

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FOOTNOTES

agSOFA Variables

- -Respiratory rate >22 breaths/min
- Altered mentation
- Systolic blood pressure ≤100mmHg

OSystemic Inflammatory Response Syndrome (SIRS) Criteria

- 1.Temperature >38°C or <36 °C
- 2.Heart rate >90 beats/min
- 3.Respiratory rate >20 breaths/min, or paCO2 <32mmHg
- 4.WBC count >12,000 or <4,000 cells/mm3, or >20% immature (band) forms

^CStandard of care for sepsis: (Intensive Care for Severe Sepsis and Septic Shock)

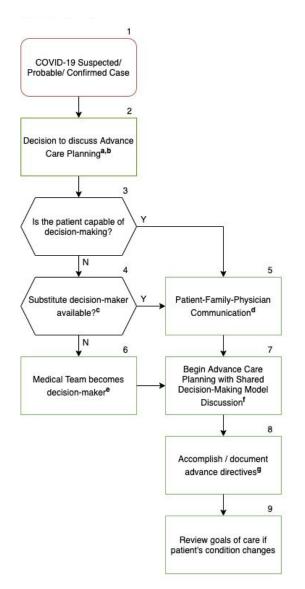
- Admit patient to the ICU.
- Give antimicrobials within 1 hour of initial patient assessment. Follow current Guidelines for Diagnosis and Treatment of CAP in Adults.
- Blood cultures ideally should be collected prior to antimicrobial treatment, but should not delay administration of antimicrobials.
- Early effective fluid resuscitation needed
- · Administer at least 30 mL/kg of isotonic crystalloid in adults in the first 3
- · Monitor for volume overload during resuscitation.
- Apply vasopressors when shock persists in the for of norepinephrine, vasopressin, or dobutamine (if with signs of poor perfusion and cardiac dysfunction.
- Maintain initial BP target as MAP > or = to 65 mmHg.
- Insert central venous catheters. If not available, vasopressors may be given through peripheral IV access with the use of a large vein.

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SECTION 4: SPECIAL CONSIDERATIONS

FIGURE 4A. ADVANCE CARE PLANNING

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Footnotes

^aTiming of ACP Discussion

In a pandemic situation, advanced care planning at the onset of serious acute illness will be beneficial and should be given priority. Proper timing of ACP discussion is important, should be sensitive and will depend on several factors including patient's clinical status and prognosis, patient/family preferences and values, and HCW team/facility capabilities among others. Too early discussion may cause distress and demoralization, while too late may delay patient/family preparation for acute medical crisis, and cause incongruences in patient care.

^bAdvance Care Planning

Advanced Care Planning is making decisions about the healthcare a patient would want to receive if one is facing a medical crisis. This may take time so do not force arriving at a decision abruptly. Advanced Care planning includes :

- 1. Assessing the patient's / decision-maker's mental capacity to make informed decisions. Look for signs of losing the capacity to understand information, to retain information, to use and weigh information, and to communicate information.
- 2. Giving the patient / decision-maker information on the types of life-sustaining treatments that are available.
- 3. Helping the patient / decision-maker decide what types of treatment he/she would or would not want should the patient be diagnosed with a life-limiting illness.
- 4. Encouraging the patient / decision-maker to share one's personal values with loved ones
- 5. Completing Advance Directives to put into writing what types of treatment the patient / decision-maker would or would not want - and who to speak to - should the patient be unable to speak for
- 6. To ensure that the document reflects the current wishes of the patient, initiate a review of the advance planning decisions if there is a change in the patient's perception of their quality of life; For patients that lack capacity, critical care teams should enquire about the presence of any ACP or advanced statements to better understand the beliefs of the individual; and in a pandemic situation, advanced care planning at the onset of serious acute illness will be beneficial and should be given priority.

^cSubstitute Decision-maker

Appointed according to the following hierarchy:

- 1. Power of Attorney
- 2. Spouse (living together in a married or common-law relationship)
- 3. Parent or child
- 4. Siblings
- 5. Other relatives

^dPatient-Family-Physician Communication

The guide includes the following reminders:

- 1. Ensure Comfort
- 2. Assess Emotional Temperature
- 3. Listen to Patient Concerns
- 4. Reassure
- 5. Assess Need for Information
- 6. Deliver Information with Empathy
- 7. Explore Emotions and Provide Support

^eMedical Team becomes decision-maker

In the premise there is no appointed/surrogate decision-maker, medical team makes a "best interest" decision following consultation with family members and any written statements. This is an attempt to make the same decision the patient would in these circumstances should they have had capacity.

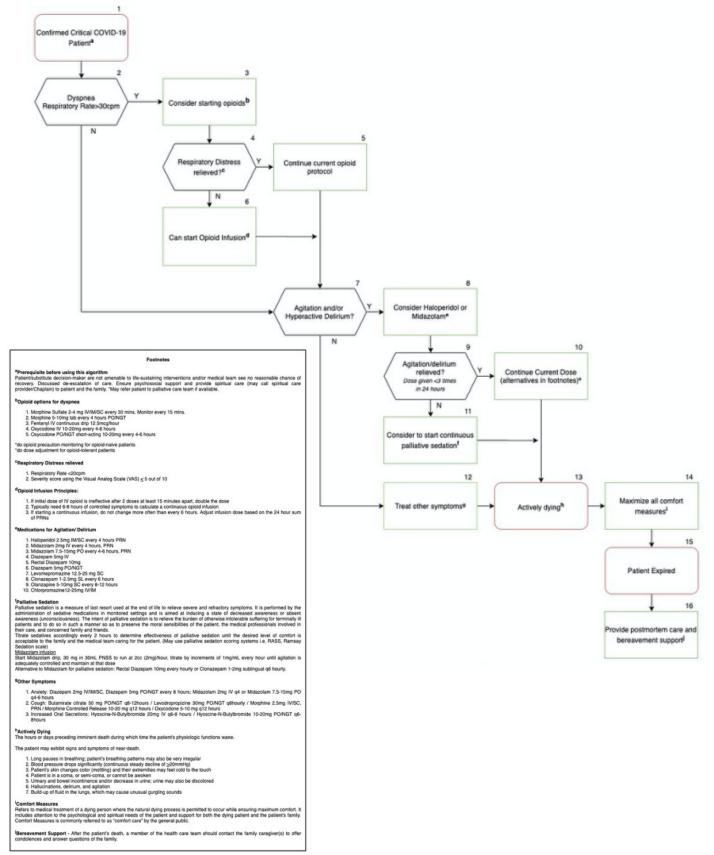
^fShared decision making model

Key component process of patient-centered health care in which clinicians, patients and their families work together to make decisions and select tests, treatments and care plans based on clinical evidence that balances risks and expected outcomes with patient preferences and values.

⁹Advanced Directive definition

An advance directive consists of a person's oral and written instructions about his or her future medical care, in the event he or she becomes unable to communicate, becomes incompetent to make health care decisions or is in a persistent vegetative state. This may vary in different institutions, ensure completeness and attach to patient's records

FIGURE 4B. END-OF-LIFE SYMPTOM MANAGEMENT OF **IRREVERSIBLE RESPIRATORY FAILURE IN COVID-19 PATIENTS**



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SECTION 5: PATIENT REINTEGRATION

FIGURE 5A. DISCHARGE OF PATIENTS WITH PROBABLE OR CONFIRMED COVID-19, CRITERIA FOR DISCONTINUATION OF TRANSMISSION PRECAUTIONS

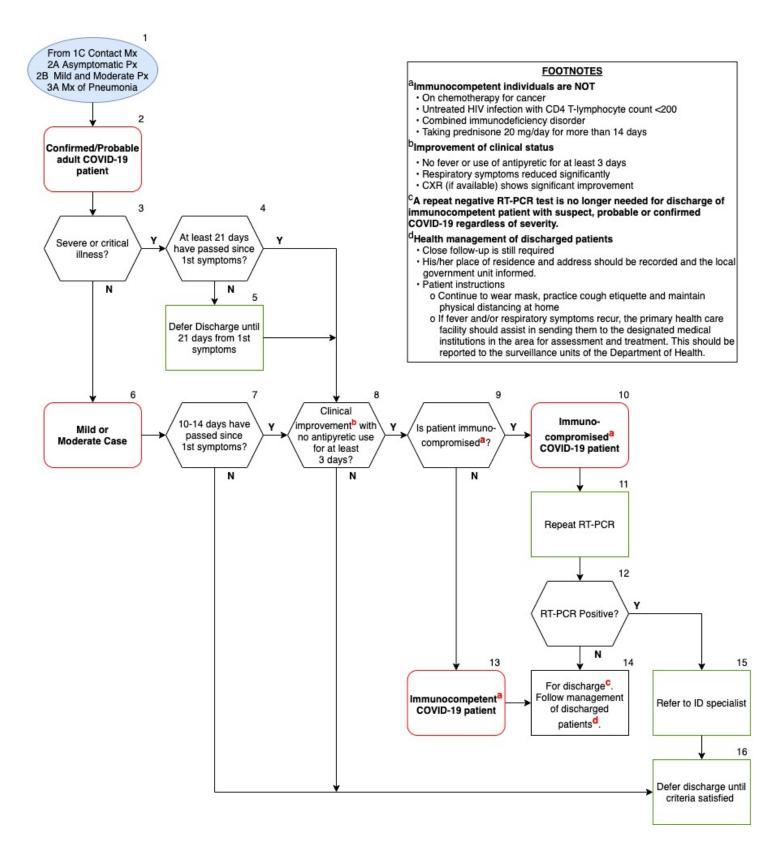
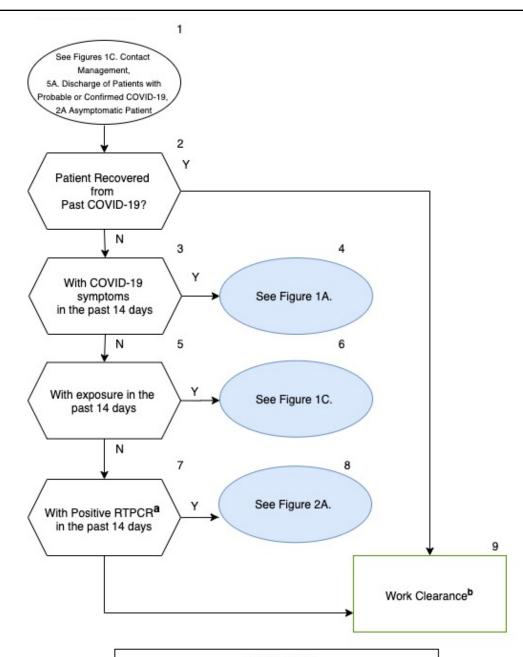


FIGURE 5B. CLEARING NON-HEALTH CARE WORKERS FOR RETURN **TO WORK**

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FOOTNOTES

^aRTPCR tests are NOT recommended for work clearance

Rapid antibody tests are not recommended for work clearance. Rapid antigen tests are currently not recommended for work clearance.

^bRefer to workplace guidelines

- DOLE-DTI Joint Memorandum Circular 20-04-A (August 15,
- 2. DOH Workplace Handbook as of September 30, 2020

FIGURE 5C. RECOMMENDATIONS FOR ASYMPTOMATIC AND SYMPTOMATIC HEALTH CARE WORKERS WITH CONFIRMED COVID-19 **RETURNING TO WORK**

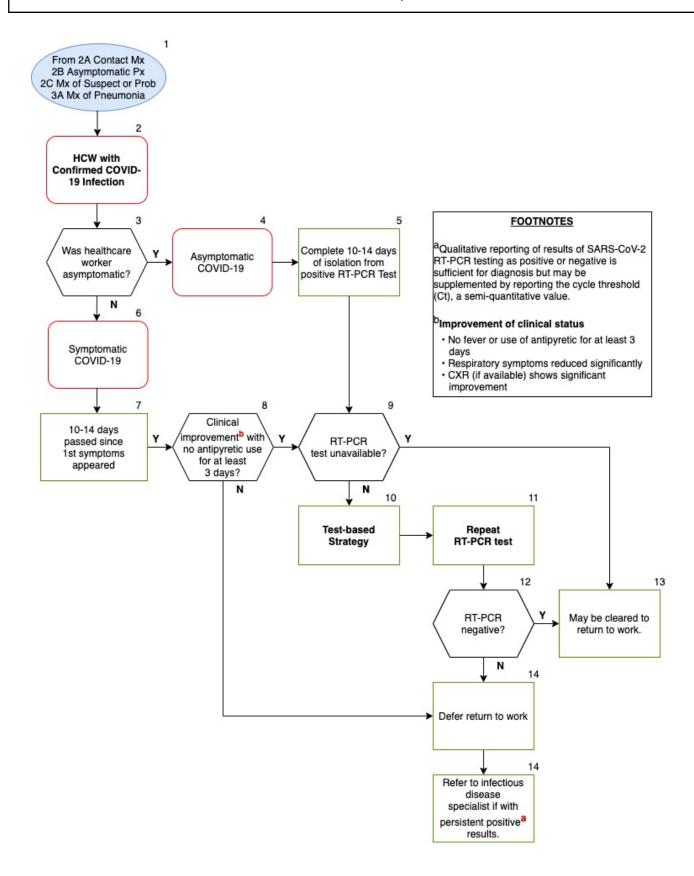


FIGURE 5D. POST MORTEM CARE

Burial

- 1. Burial, preferably cremation, shall be done within 12 hours after death
- 2. However, burial of the dead body shall, to the most possible extent, be in accordance with the person's religion or customs

Removal of the Body and Transport to Cemetery

- 1. Transfer the body to the mortuary as soon as possible after death
- 2. Wrap the body with cloth and place in the airtight cadaver bag that is leak-proof and shall be zipped or closed tightly with tapes and bandage strips
- 3. Decontaminate surface of the bag with hypochlorite solution or any hospital approved disinfectant
- 4. Ensure that the body is fully sealed in an impermeable airtight cadaver bag before being removed from the isolation room or area, and before transfer to the mortuary, to avoid leakage of body fluid
- 5. When properly packed in the airtight cadaver bag, the body can be safely removed for storage in the mortuary, sent to the crematorium or placed in a coffin for burial
- 6. At no instance shall unzipping the cadaver bag of the body and removal of the body be permitted
- 7. The funeral establishment shall provide the transport of the cadaver to the burial site/crematorium. The vehicle shall be disinfected afterwards

Environmental Control

- 1. Make sure that supply of disposable gloves, protective equipment, alcohol-based hand rub and disinfectant such as household bleach is readily available
- 2. After use, the disposable items such as gloves and protective clothing should be disposed of in a plastic bag
- All surfaces which may be contaminated should be wiped with "1 in 49 diluted household bleach" (mixing 1 part of bleach with 49 parts of water), leave it for 15-30 minutes, and then rinse with water. Metal surfaces could be wiped with 70% alcohol
- 4. Surfaces visibly contaminated with blood and body fluids should be wiped with "1 in 4 diluted household bleach" (mixing 1 part of bleach with 4 parts of water), leave it for 10 minutes, and then rinse with water.

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SECTION 6: PERSONAL PROTECTIVE EQUIPMENT

FIGURE 6A. RECOMMENDED PPE FOR HEALTHCARE WORKERS IN HOSPITAL FACIITIES AND EMERGENCY MEDICAL SERVICES

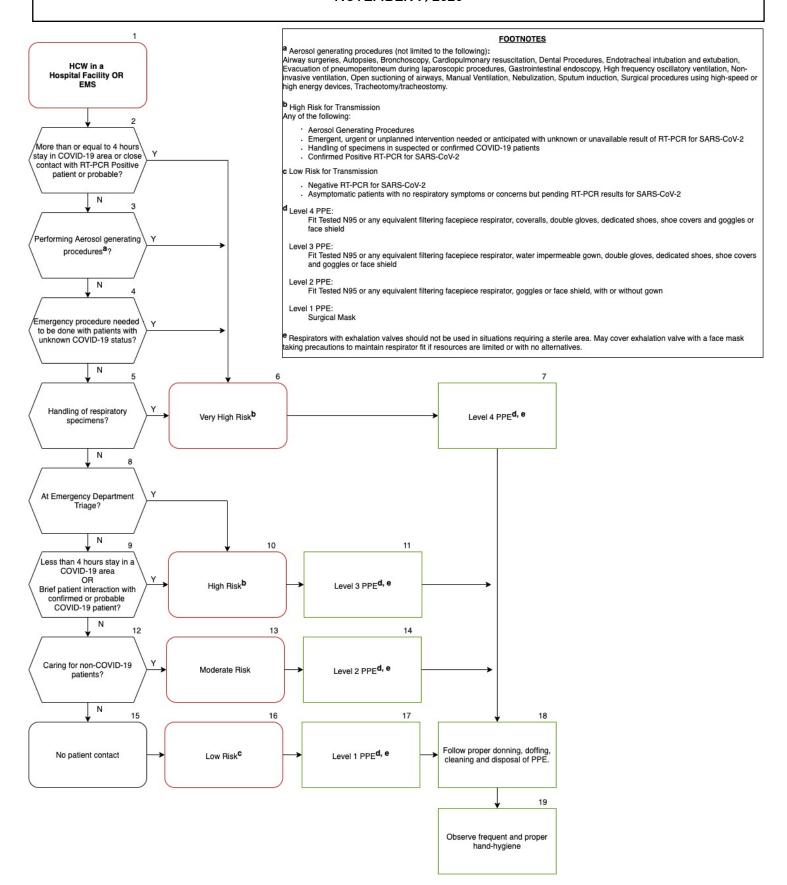


FIGURE 6B. RECOMMENDED PPE FOR HEALTHCARE WORKERS IN **OUTPATIENT FACILITIES IN AREAS WITH SUSTAINED COMMUNITY TRANSMISSION**

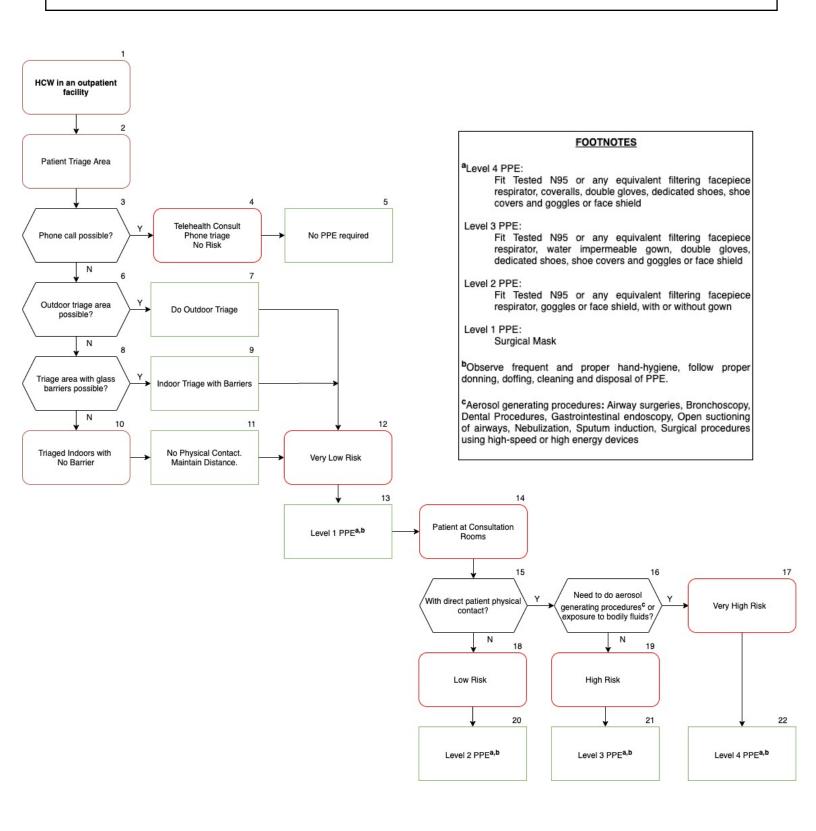
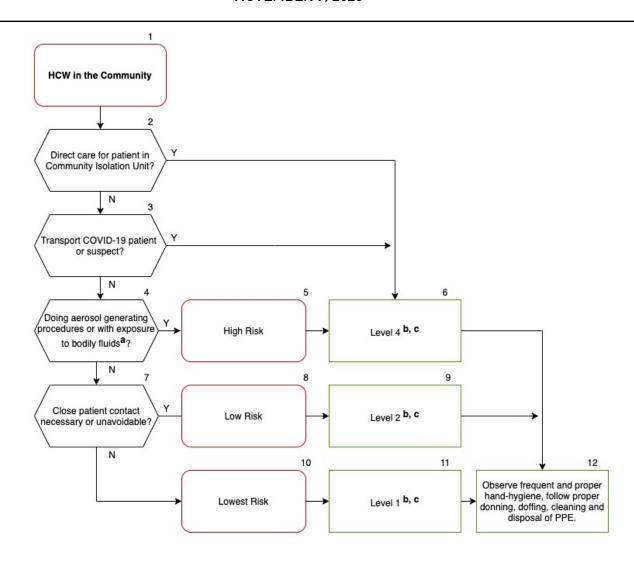


FIGURE 6C. RECOMMENDED PPE FOR HEALTHCARE WORKERS IN THE **COMMUNITY**

NOVEMBER 7. 2020



FOOTNOTES

a Aerosol generating procedures (not limited to the following):

Airway surgeries, Autopsies, Bronchoscopy, Cardiopulmonary resuscitation, Dental Procedures, Endotracheal intubation and extubation, Evacuation of pneumoperitoneum during laparoscopic procedures, Gastrointestinal endoscopy, High frequency oscillatory ventilation, Non-invasive ventilation, Open suctioning of airways, Manual Ventilation, Nebulization, Sputum induction, Surgical procedures using high-speed or high energy devices, Tracheotomy/tracheostomy

b Level 4 PPE:

Fit Tested N95 or any equivalent filtering facepiece respirator, coveralls, double gloves, dedicated shoes, shoe covers and goggles or face shield

Level 3 PPE:

Fit Tested N95 or any equivalent filtering facepiece respirator, water impermeable gown, double gloves, dedicated shoes, shoe covers and goggles or face shield

Level 2 PPE:

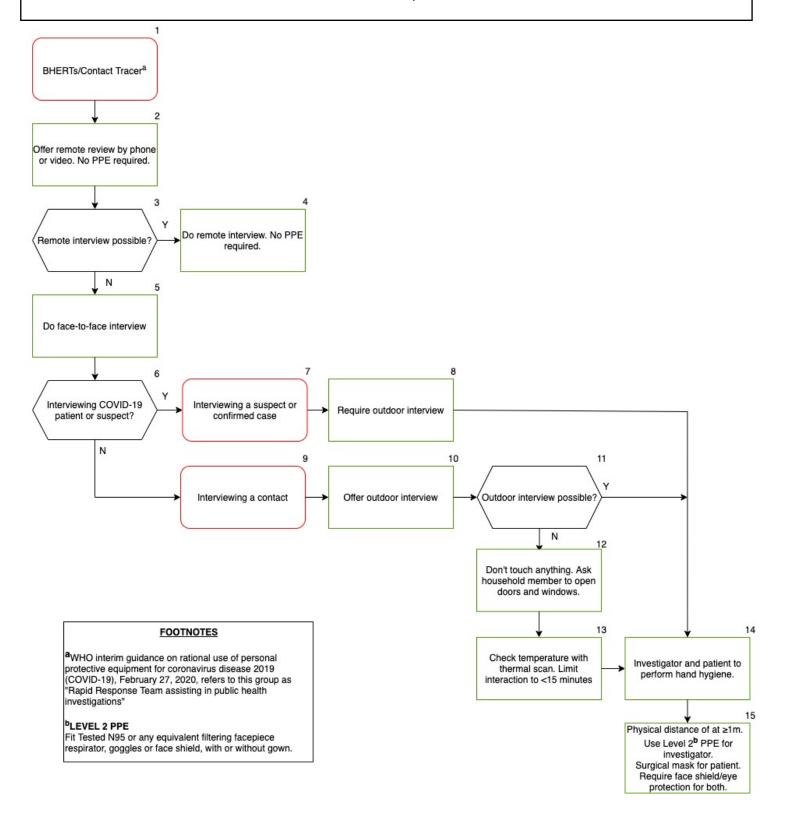
Fit Tested N95 or any equivalent filtering facepiece respirator, goggles or face shield, with or without gown

Level 1 PPE:

Surgical Mask

c Respirators with exhalation valves should not be used in situations requiring a sterile area. May cover exhalation valve with a face mask taking precautions to maintain respirator fit if resources are limited or with no alternatives.

FIGURE 6D. PPE FOR BHERTS AND CONTACT TRACERS ASSISTING IN **PUBLIC HEALTH INVESTIGATIONS**



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SECTION 7: EMERGENCY SERVICES

FIGURE 7A. MANAGEMENT OF OUT OF HOSPITAL CARDIAC ARREST (OHCA) DURING PANDEMICS (COVID-19)

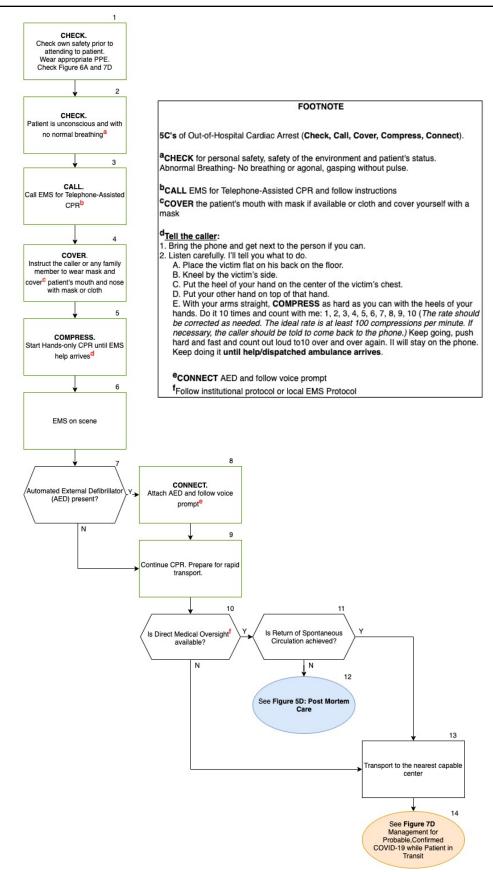


FIGURE 7B. PRIMARY TRANSPORT* (PRE-HOSPITAL)

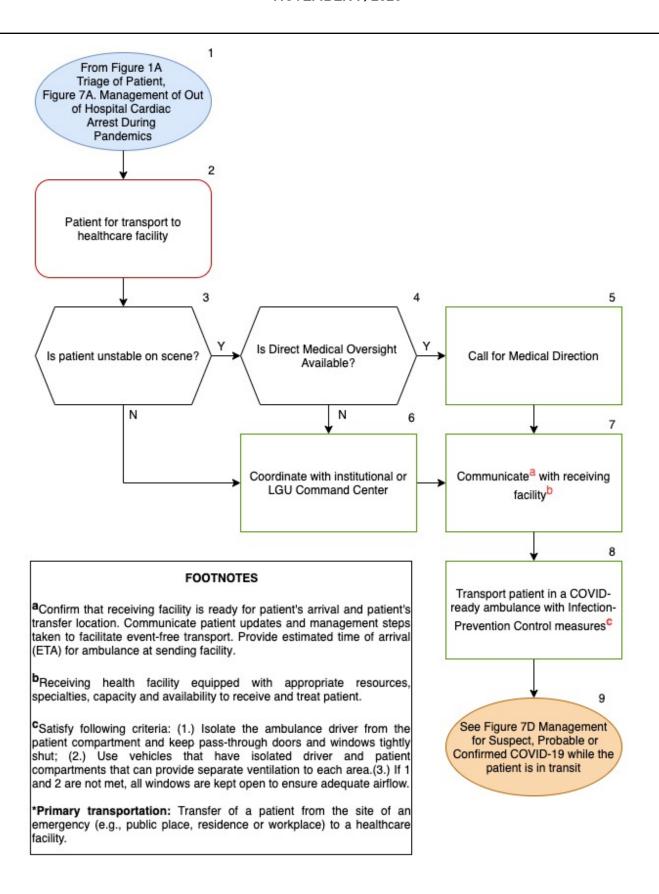


FIGURE 7C. INTER-FACIITY TRANSPORT* (SECONDARY)

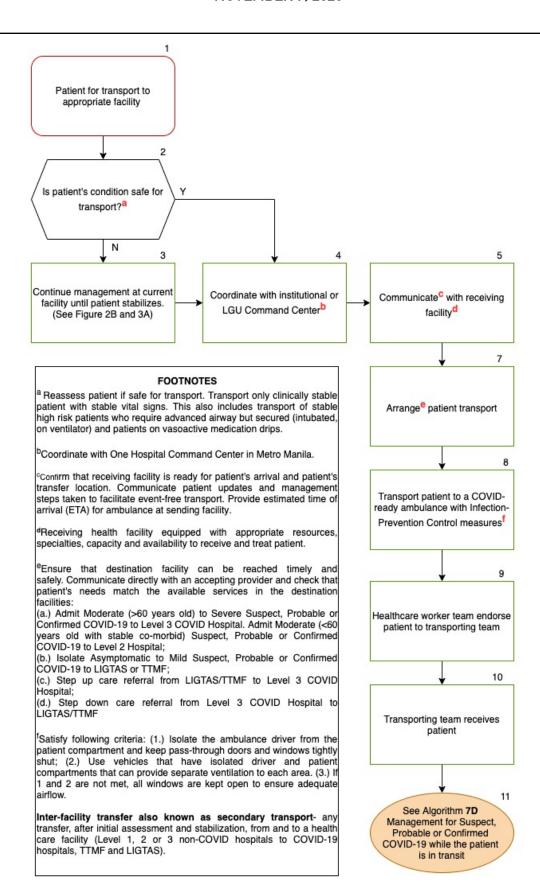


FIGURE 7D. MANAGEMENT FOR SUSPECT, PROBABLE, OR **CONFIRMED COVID-19 PATIENT IN TRANSIT³**

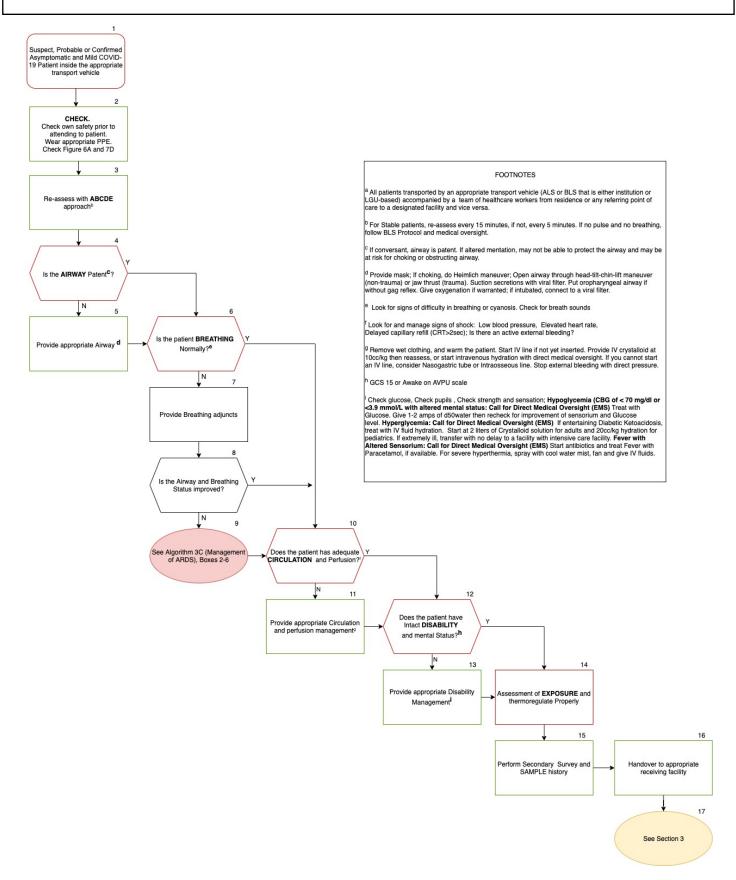
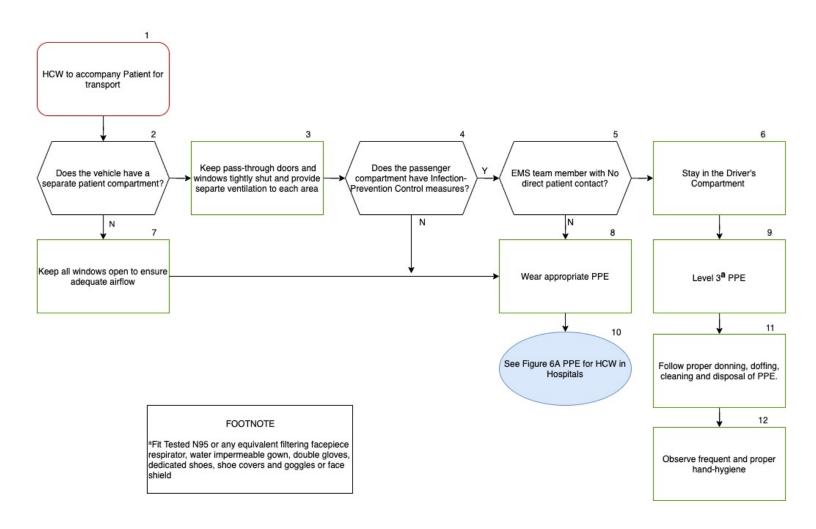


FIGURE 7E. INFECTION PREVENTION AND CONTROL FOR **AMBULANCE EMS TEAM**



REFERENCES

American Heart Association. (2020). Highlights of the 2020 American Heart Association guidelines for CPR and ECC. (https://cpr.heart.org/-/media/cpr-files/cpr-guidelines-files/highlights/hghlghts_2020_ecc_guidelines_english.pdf accessed 26 August 2020).

Center for Disease Control and Prevention, USA. (2020). Interim guidance for emergency medical services (EMS) systems and 911 public safety answering points (PSAPS) for COVID-19 in the United States, updated March 10, 2020. (https://www.ems.gov/pdf/ASPR-EMS-Infectious-Disease-Playbook-June-2017.pdf accessed 1 October, 2020).

Department of Health, Philippines. (2020). DOH Department Memorandum No. 2020-0261: Guidelines on local isolation and general treatment areas for COVID-19 cases (LIGTAS COVID) and the community-based management of mild COVID-19 cases, April 15, 2020.

Department of Health, Philippines. (2020). DOH Department Memorandum No. 2020-0319: Interim guidelines on the continuous provision of maternal health services during COVID-19 pandemic, July 13, 2020.

Department of Health, Philippines. (2020). DOH Joint Administrative Order No. 2020-0001: Interim guidelines on COVID-19 management of pregnant women, women about to give birth, and newborn, July 13, 2020.

Department of Health and Human Services, USA. (2017). EMS Infectious Disease Playbook. (https://www.ems.gov/pdf/ASPR-EMS-Infectious-Disease-Playbook-June-2017.pdf accessed 1 October 2020).

European Centre for Disease Prevention and Control. (2020). Contact tracing: Public health management of persons, including healthcare workers, having had contact with COVID-19 cases in the European Union – second update, 31 March 2020. Stockholm: ECDC; 2020. (https://www.ecdc.europa.eu/sites/default/files/documents/Contact-tracing-Public-health-management-persons-including-healthcare-workers-having-had-contact-with-COVID-19-cases-in-the-European-Union%E2%80%93second-update_0.pdf accessed 26 August 2020).

Philippine Society for Microbiology and Infectious Diseases. (2020). Interim guidance on the clinical management of adult patients with suspected or confirmed COVID-19 infection, Version 3.1 as of July 20, 2020. (https://www.psmid.org/wp-content/uploads/2020/07/Final-PCP-PSMID-PCCP-COVID-19-Guidelines-20July2020b.pdf accessed 25 August 2020).

Philippine Society of Hospice and Palliative Medicine. (2020). Three-Part Guidance Documents for Palliative Care of Patients including those with Life-Threatening Illness, May 12, 2020. (https://www.ruth.ph/updates/2020/5/11/sa4cu39z4x3zwbc835oax00826ubed accessed 25 August 2020).

Rao S, Sunder P. (2020). Communication tips in COVID-19 on , E-book on palliative care guidelines for COVID-19 pandemic task force in palliative care, Kerala, April 2020. (https://wp.ufpel.edu.br/francielefrc/files/2020/04/e-book-Palliative-Care-Guidelines-for-COVID19-ver1.pdf accessed 26 August 2020).

University of the Philippines Manila. (2020). Ethics quidelines on COVID-19 crisis level hospital care, Version 1, April 20, 2020.

World Health Organization. (2020). Clinical management COVID-19: Interim Guidance May 27, 2020. (https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/patient-management accessed 14 August 2020)

World Health Organization. (2020). Home care for patients with suspected or confirmed COVID-19 and management of their contacts, August 13, 2020. (https://www.who.int/publications/i/item/home-care-for-patients-with-suspected-novel-coronavirus-(ncov)-infection-presenting-with-mild-symptoms-and-management-of-contacts accessed 26 August 2020).

World Health Organization. (2020). Interim guidance for Considerations for quarantine of contacts of COVID-19 cases Version August 19, 2020. (https://www.who.int/publications/i/item/considerations-for-quarantine-of-individuals-in-the-context-of-containment-for-coronavirus-disease-(covid-19) accessed 14 August 2020).

World Health Organization. (2020). Public health surveillance for COVID-19: interim guidance August 7, 2020. (https://www.who.int/publications/i/item/who-2019-nCoV-surveillanceguidance-2020.7 accessed 26 August 2020).

World Health Organization. (2020). Rational use of personal protective equipment for coronavirus disease (COVID-19) and considerations during severe shortages, April 6, 2020. (https://www.who.int/publications/i/item/who-2019-nCoV-surveillanceguidance-2020.7 accessed 26 August 2020).