



## Case Investigation Form Coronavirus Disease (COVID-19)

Version 9



- 1) The Case Investigation Form (CIF) is meant to be administered as an interview by a health care worker or any personnel of the DRU. **This is not a self-administered questionnaire.**  
2) Please be advised that DRUs are only allowed to obtain **1 copy of accomplished CIF** from a patient.  
3) Please fill out all blanks and put a check mark on the appropriate box. Never leave an item blank (write N/A). **Items with \* are required fields.** All dates must be in **MM/DD/YYYY** format.

Disease Reporting Unit*		DRU Region and Province	PhilHealth No.*
Name of Interviewer		Contact Number of Interviewer	Date of Interview (MM/DD/YYYY)*
Name of Informant (if applicable)		Relationship	Contact Number of Informant
If existing case (check all that apply)*	<input type="checkbox"/> Not applicable (New case)	<input type="checkbox"/> Update case classification	<input type="checkbox"/> Update disposition
	<input type="checkbox"/> Not applicable (Unknown)	<input type="checkbox"/> Update vaccination	<input type="checkbox"/> Update exposure / travel history
	<input type="checkbox"/> Update symptoms	<input type="checkbox"/> Update lab result	<input type="checkbox"/> Others, specify: _____
	<input type="checkbox"/> Update health status / outcome	<input type="checkbox"/> Update chest imaging findings	
Type of Client*	<input type="checkbox"/> COVID-19 Case (Suspect, Probable, or Confirmed) <input type="checkbox"/> Close Contact <input type="checkbox"/> For RT-PCR Testing (Not a Case of Close Contact)		
Testing Category/Subgroup* (Check all that apply, refer to Appendix 2)		<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J	

<b>Part 1. Patient Information</b>			
<b>1.1. Patient Profile</b>			
Last Name*	First Name (and Suffix)*		Middle Name*
Birthday (MM/DD/YYYY)*	Age*	Sex* <input type="checkbox"/> Male <input type="checkbox"/> Female	
Civil Status	Nationality*		
Occupation	Works in a closed setting? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
<b>1.2. Current Address in the Philippines and Contact Information* (Provide address of institution if patient lives in closed settings, see 1.5)</b>			
House No./Lot/Bldg.*	Street/Purok/Sitio*	Barangay*	Municipality/City*
Province*	Home Phone No. (& Area Code)	Cellphone No.*	Email Address
<b>1.3. Permanent Address and Contact Information (if different from current address)</b>			
House No./Lot/Bldg.	Street/Purok/Sitio	Barangay	Municipality/City
Province	Home Phone No. (& Area Code)	Cellphone No.	Email Address
<b>1.4. Current Workplace Address and Contact Information</b>			
Lot/Bldg.	Street	Barangay	Municipality/City
Province	Name of Workplace	Phone No./Cellphone No.	Email Address
<b>1.5. Special Population (indicate further details on exposure and travel history in Part 3)</b>			
Health Care Worker*	<input type="checkbox"/> Yes, name of health facility: _____ and location: _____ <input type="checkbox"/> No		
Returning Overseas Filipino*	<input type="checkbox"/> Yes, country of origin: _____ and Passport number: _____ <input type="checkbox"/> No OFW: <input type="checkbox"/> OFW <input type="checkbox"/> Non-OFW		
Foreign National Traveler*	<input type="checkbox"/> Yes, country of origin: _____ and Passport number: _____ <input type="checkbox"/> No		
Locally Stranded Individual / APOR / Local Traveler*	<input type="checkbox"/> Yes, City, Municipality, & Province of origin _____ <input type="checkbox"/> No <input type="checkbox"/> Locally Stranded Individual <input type="checkbox"/> Authorized Person Outside Residence / Local Traveler		
Lives in Closed Settings*	<input type="checkbox"/> Yes, institution type: _____ and name: _____ <input type="checkbox"/> No (e.g. prisons, residential facilities, retirement communities, care homes, camps, etc.)		

<b>Part 2. Case Investigation Details</b>					
<b>2.1. Consultation Information</b>					
Have previous COVID-19 related consultation?		<input type="checkbox"/> Yes, Date of First Consult (MM/DD/YYYY)* _____ <input type="checkbox"/> No			
Name of facility where first consult was done					
<b>2.2. Disposition at Time of Report* (Provide name of hospital/isolation/quarantine facility)</b>					
<input type="checkbox"/> Admitted in hospital		Date and Time admitted in hospital _____			
<input type="checkbox"/> Admitted in isolation/quarantine facility		Date and Time isolated/quarantined in facility _____			
<input type="checkbox"/> In home isolation/quarantine		Date and Time isolated/quarantined at home _____			
<input type="checkbox"/> Discharged to home		If discharged: Date of Discharge (MM/DD/YYYY)* _____ <input type="checkbox"/> Others: _____			
<b>2.3. Health Status at Consult* (Refer to Appendix 3)</b>		<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Critical			
<b>2.4. Case Classification* (Refer to Appendix 1)</b>		<input type="checkbox"/> Suspect <input type="checkbox"/> Probable <input type="checkbox"/> Confirmed <input type="checkbox"/> Non-COVID-19 Case			
<b>2.5. Vaccination information*</b>					
Date of vaccination*	Name of Vaccine*	Dose number (e.g. 1 <sup>st</sup> , 2 <sup>nd</sup> )*	Vaccination center/facility	Region of health facility	Adverse event/s?
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No

2.6. Clinical Information										
Date of Onset of Illness (MM/DD/YYYY)* _____					Comorbidities (Check all that apply if present)					
Signs and Symptoms (Check all that apply)										
<input type="checkbox"/> Asymptomatic <input type="checkbox"/> Fever _____ °C <input type="checkbox"/> Cough <input type="checkbox"/> General weakness <input type="checkbox"/> Fatigue <input type="checkbox"/> Headache <input type="checkbox"/> Myalgia <input type="checkbox"/> Sore throat <input type="checkbox"/> Coryza					<input type="checkbox"/> Dyspnea <input type="checkbox"/> Anorexia <input type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Diarrhea <input type="checkbox"/> Altered Mental Status <input type="checkbox"/> Anosmia (loss of smell, w/o any identified cause) <input type="checkbox"/> Ageusia (loss of taste, w/o any identified cause) <input type="checkbox"/> Others, specify _____					
					<input type="checkbox"/> None <input type="checkbox"/> Hypertension <input type="checkbox"/> Diabetes <input type="checkbox"/> Heart Disease <input type="checkbox"/> Lung Disease					
					<input type="checkbox"/> Gastrointestinal <input type="checkbox"/> Genito-urinary <input type="checkbox"/> Neurological Disease <input type="checkbox"/> Cancer <input type="checkbox"/> Others _____					
					Pregnant? <input type="checkbox"/> Yes, LMP (MM/DD/YYYY) _____ <input type="checkbox"/> No					
					High-risk pregnancy? <input type="checkbox"/> Yes <input type="checkbox"/> No					
					Was diagnosed to have Severe Acute Respiratory Illness? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Chest imaging findings suggestive of COVID-19										
Date done		Chest imaging done		Results						
		<input type="checkbox"/> Chest radiography <input type="checkbox"/> Chest CT <input type="checkbox"/> Lung ultrasound <input type="checkbox"/> None		<input type="checkbox"/> Normal <input type="checkbox"/> Pending <input type="checkbox"/> Chest radiography: Hazy opacities, often rounded in morphology, with peripheral and lower lung dist. <input type="checkbox"/> Chest CT: Multiple bilateral ground glass opacities, often rounded in morphology, w/ peripheral & lower lung dist. <input type="checkbox"/> Lung ultrasound: Thickened pleural lines, B lines, consolidative patterns with or without air bronchograms <input type="checkbox"/> Other findings, specify _____						
2.7. Laboratory Information										
Have tested positive using RT-PCR before? *		<input type="checkbox"/> Yes, date of specimen Collection (MM/DD/YYYY)* _____ <input type="checkbox"/> No Laboratory* _____ No. of previous RT-PCR swabs done _____								
Date collected*		Date released		Laboratory*		Type of test*			Results*	
						<input type="checkbox"/> RT-PCR (OPS) <input type="checkbox"/> RT-PCR (NPS) <input type="checkbox"/> RT-PCR (OPS and NPS) <input type="checkbox"/> Others: _____			<input type="checkbox"/> Antigen; reason _____ <input type="checkbox"/> brand of kit _____ <input type="checkbox"/> Antibody Test <input type="checkbox"/> Pending <input type="checkbox"/> Negative <input type="checkbox"/> Positive <input type="checkbox"/> Equivocal <input type="checkbox"/> Others: _____	
						<input type="checkbox"/> RT-PCR (OPS) <input type="checkbox"/> RT-PCR (NPS) <input type="checkbox"/> RT-PCR (OPS and NPS) <input type="checkbox"/> Others: _____			<input type="checkbox"/> Antigen; reason _____ <input type="checkbox"/> brand of kit _____ <input type="checkbox"/> Antibody Test <input type="checkbox"/> Pending <input type="checkbox"/> Negative <input type="checkbox"/> Positive <input type="checkbox"/> Equivocal <input type="checkbox"/> Others: _____	
2.8. Outcome/Condition at Time of Report*										
<input type="checkbox"/> Active (currently admitted/isolation/quarantine) <input type="checkbox"/> Recovered, date of recovery (MM/DD/YYYY)* _____ <input type="checkbox"/> Died, date of death (MM/DD/YYYY)* _____										
If died, cause of death*		Immediate Cause:				Antecedent Cause:				
		Underlying Cause:				Contributory Conditions:				
PART 3. Contact Tracing: Exposure and Travel History										
History of exposure to known probable and/or confirmed COVID-19 case 14 days before the onset of signs and symptoms? OR If Asymptomatic, 14 days before swabbing or specimen collection? *						<input type="checkbox"/> Yes, date of last contact (MM/DD/YYYY)* _____ <input type="checkbox"/> No <input type="checkbox"/> Unknown				
Has the patient been in a place with a known COVID-19 transmission 14 days before the onset of signs and symptoms? OR If Asymptomatic, 14 days before swabbing or specimen collection? *						<input type="checkbox"/> Yes, International <input type="checkbox"/> Yes, Local <input type="checkbox"/> No <input type="checkbox"/> Unknown exposure				
If International Travel, country of origin				Inclusive travel dates:		From:		To:		
				With ongoing COVID-19 community transmission?		<input type="checkbox"/> Yes <input type="checkbox"/> No				
Airline/Sea vessel		Flight/Vessel Number		Date of departure (MM/DD/YYYY)		Date of arrival in PH (MM/DD/YYYY)				
If Local Travel, specify travel places (Check all that apply, provide name of facility, address, and inclusive travel dates in MM/DD/YYYY)										
Place Visited		Name of Place		Address (Region, Province, Municipality/City)		Inclusive Travel Dates		With ongoing COVID-19 Community Transmission?		
						From: To:				
<input type="checkbox"/> Health Facility								<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Closed Settings								<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> School								<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Workplace								<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Market								<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Social Gathering								<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Others								<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Transport Service, specify the following:										
Airline / Sea vessel / Bus line / Train		Flight / Vessel / Bus No.		Place of Origin		Departure Date (MM/DD/YYYY)		Destination		
- If symptomatic, provide names and contact numbers of persons who were with the patient two days prior to onset of illness until this date - If asymptomatic, provide names and contact numbers of persons who were with the patient on the day specimen was submitted for testing until this date				Name (Use the back page if needed)			Contact Number			

## Appendix 1. COVID-19 Case Definitions

SUSPECT	PROBABLE
<p>A) A person who meets the <b>clinical AND epidemiological criteria</b></p> <ul style="list-style-type: none"> <li><b>Clinical criteria:</b> <ol style="list-style-type: none"> <li>1) Acute onset of fever AND cough <b>OR</b></li> <li>2) Acute onset of <b>ANY THREE OR MORE</b> of the following signs or symptoms; fever, cough, general weakness/fatigue, headache, myalgia, sore throat, coryza, dyspnea, anorexia / nausea/ vomiting, diarrhea, altered mental status. <b>AND</b></li> </ol> </li> <li><b>Epidemiological criteria</b> <ol style="list-style-type: none"> <li>1) Residing/working in an area with high risk of transmission of the virus (e.g. closed residential settings and humanitarian settings, such as camp and camp-like setting for displaced persons), any time w/in the 14 days prior to symptoms onset <b>OR</b></li> <li>2) Residing in or travel to an area with community transmission anytime w/in the 14 days prior to symptoms onset; <b>OR</b></li> <li>3) Working in health setting, including w/in the health facilities and w/in households, anytime w/in the 14 days prior to symptom onset; <b>OR</b></li> </ol> </li> </ul> <p>B) A patient with <b>severe acute respiratory illness</b> (SARI: acute respiratory infection with history of fever or measured fever of <math>\geq 38^{\circ}\text{C}</math>; cough with onset w/in the last 10 days; and who requires hospitalization)</p>	<p>A) A <b>patient</b> who meets the <b>clinical criteria</b> (on the left) <b>AND is contact of a probable or confirmed case, or epidemiologically linked to a cluster of cases</b> which had had at least one confirmed identified within that cluster</p> <p>B) A <b>suspect case</b> (on the left) with <b>chest imaging showing findings suggestive of COVID-19 disease</b>. Typical chest imaging findings include (Manna, 2020):</p> <ul style="list-style-type: none"> <li>– Chest radiography: hazy opacities, often rounded in morphology, with peripheral and lower lung distribution</li> <li>– Chest CT: multiple bilateral ground glass opacities, often rounded in morphology, with peripheral and lower lung distribution</li> <li>– Lung ultrasound: thickened pleural lines, B lines (multifocal, discrete, or confluent), consolidative patterns with or without air bronchograms</li> </ul> <p>C) A person with <b>recent onset of anosmia (loss of smell), ageusia (loss of taste) in the absence of any other identified cause</b></p> <p>D) Death, not otherwise explained, in an <b>adult with respiratory distress preceding death AND who was a contact of a probable or confirmed case or epidemiologically linked to a cluster</b> which has had at least one confirmed case identified with that cluster</p>
	CONFIRMED
	A person with <b>laboratory confirmation of COVID-19 infection</b> , irrespective of clinical signs and symptoms.

## Appendix 2. Testing Category / Subgroup

<b>A</b>	Individuals with <b>severe/critical</b> symptoms and <b>relevant history</b> of travel/contact	<b>G</b>	Residents, occupants or workers in a <b>localized area with an active COVID-19 cluster</b> , as identified and declared by the local chief executive in accordance with existing DOH Guidelines and consistent with the National Task Force Memorandum Circular No. 02 s.2020 or the Operational Guidelines on the Application of the Zoning Containment Strategy in the Localization of the National Action Plan Against COVID-19 Response. The local chief executive shall conduct the necessary testing in order to protect the broader community and critical economic activities and to avoid a declaration of a wider community quarantine.
<b>B</b>	Individuals with <b>mild</b> symptoms, <b>relevant history</b> of travel/contact, and considered <b>vulnerable</b> ; vulnerable populations include those elderly and with preexisting medical conditions that predispose them to severe presentation and complications of COVID-19	<b>H</b>	Frontliners in <b>Tourist Zones</b> :
<b>C</b>	Individuals with <b>mild</b> symptoms, and <b>relevant history</b> of travel and/or contact	<b>H1</b>	All workers and employees in the <b>hospitality and tourism sectors</b> in El Nido, Boracay, Coron, Panglao, Siargao and other tourist zones, as identified and declared by the Department of Tourism. These workers and employees may be tested once every four (4) weeks.
<b>D</b>	Individuals with <b>no symptoms</b> but with <b>relevant history</b> of travel and/or contact or high risk of exposure. These include:	<b>H2</b>	All <b>travelers</b> , whether of domestic or foreign origin, may be tested at least once, at their own expense, prior to entry into any designated tourist zone, as identified and declared by the Department of Tourism.
<b>D1</b>	- <b>Contact-traced individuals</b>	<b>I</b>	All workers and employees of <b>manufacturing companies and public service providers registered in economic zones</b> located in Special Concern Areas may be tested regularly.
<b>D2</b>	- <b>Healthcare workers</b> , who shall be prioritized for regular testing in order to ensure the stability of our healthcare system	<b>J</b>	<b>Economy Workers</b>
<b>D3</b>	- <b>Returning Overseas Filipino</b> (ROF) workers, who shall immediately be tested at port of entry	<b>J1</b>	<b>Frontline and Economic Priority Workers</b> , defined as those 1) who work in high priority sectors, both public and private, 2) have high interaction with and exposure to the public, and 3) who live or work in Special Concern Areas, may be tested every three (3) months. These include but not limited to:
<b>D4</b>	- <b>Filipino citizens</b> in a specific locality within the Philippines who have expressed intention to return to their place of residence/home origin ( <b>Locally Stranded Individuals</b> ) may be tested subject to the existing protocols of the IATF		<ul style="list-style-type: none"> <li>- <b>Transport and Logistics</b>: drivers of taxis, ride hailing services, buses, public transport vehicle, conductors, pilots, flight attendants, flight engineers, rail operators, mechanics, servicemen, delivery staff, water transport workers (ferries, inter-island shipping, ports)</li> <li>- <b>Food Retailers</b>: waiters, waitress, bar attendants, baristas, chefs, cooks, restaurant managers</li> <li>- <b>Education</b>: teachers at all levels of education and other school frontliners such as guidance counselors, librarians, cashiers</li> <li>- <b>Financial Services</b>: bank tellers</li> <li>- <b>Non-Food Retailers</b>: cashiers, stock clerks, retail salespersons</li> <li>- <b>Services</b>: hairdressers, barbers, manicurists, pedicurists, massage therapists, embalmers, morticians, undertakers, funeral directors, parking lot attendants, security guards, messengers</li> <li>- <b>Construction</b>: construction workers including carpenters, stonemasons, electricians, painters, foremen, supervisors, civil engineers, structural engineers, construction managers, crane/tower operators, elevator installers, repairmen</li> <li>- <b>Water Supply, Sewerage, Waster Management</b>: plumbers, recycling/ reclamation workers, garbage collectors, water/wastewater engineers, janitors, cleaners</li> <li>- <b>Public Sector</b>: judges, courtroom clerks, staff and security, all national and local government employees rendering frontline services in special concern areas</li> <li>- <b>Mass Media</b>: field reporters, photographers, cameramen</li> </ul>
<b>E</b>	<b>Frontliners indirectly involved in health care provision</b> in the response against COVID-19 may be tested as follows:		All employees <b>not covered above are not required to undergo testing but are encouraged to be tested every quarter</b> . Private sector employers are highly encouraged to send their employees for regular testing at the employers' expense in order to avoid lockdowns that may do more damage to their companies.
<b>E1</b>	Those with <b>high or direct exposure to COVID-19 regardless of location</b> may be tested up to once a week. These include: (1) Personnel manning the Temporary Treatment and Quarantine Facilities (LGU and Nationally-managed); (2) Personnel serving at the COVID-19 swabbing center; (3) Contact tracing personnel; and (4) Any personnel conducting swabbing for COVID-19 testing	<b>J2</b>	
<b>E2</b>	Those who <b>do not have high or direct exposure to COVID-19</b> but who <b>live or work in Special Concern Areas</b> may be tested up to every two to four weeks. These include the following: (1) Personnel manning Quarantine Control Points, including those from Armed Forces of the Philippines, Bureau of Fire Protection; (2) National / Regional / Local Risk Reduction and Management Teams; (3) Officials from any local government / city / municipality health office (CEDSU, CESU, etc.); (4) Barangay Health Emergency Response Teams and barangay officials providing barangay border control and performing COVID-19-related tasks; (5) Personnel of Bureau of Corrections and Bureau of Jail Penology & Management; (6) Personnel manning the One-Stop-Shop in the Management of ROFs; (7) Border control or patrol officers, such as immigration officers and the Philippine Coast Guard; and (8) Social workers providing amelioration and relief assistance to communities and performing COVID-19-related tasks		
<b>F</b>	Other <b>vulnerable patients</b> and those <b>living in confined spaces</b> . These include but are not limited to: (1) Pregnant patients who shall be tested during the peripartum period; (2) Dialysis patients; (3) Patients who are immunocompromised, such as those who have HIV/AIDS, inherited diseases that affect the immune system; (4) Patients undergoing chemotherapy or radiotherapy; (5) Patients who will undergo elective surgical procedures with high risk for transmission; (6) Any person who have had organ transplants, or have had bone marrow or stem cell transplant in the past 6 months; (7) Any person who is about to be admitted in enclosed institutions such as jails, penitentiaries, and mental institutions.		

## Appendix 3. Severity of the Disease

MILD	CRITICAL
Symptomatic patients presenting with fever, cough, fatigue, anorexia, myalgias; other non-specific symptoms such as sore throat, nasal congestion, headache, diarrhea, nausea and vomiting; loss of smell (anosmia) or loss of taste (ageusia) preceding the onset of respiratory symptoms with <b>NO signs of pneumonia or hypoxia</b>	Patients manifesting with acute respiratory distress syndrome, sepsis and/or septic shock:
MODERATE	1. <b>Acute Respiratory Distress Syndrome (ARDS)</b>
1. Adolescent or adult with <b>clinical signs of non-severe pneumonia</b> (e.g. fever, cough, dyspnea, respiratory rate (RR) = <b>21-30 breaths/minute</b> , peripheral capillary oxygen saturation (SpO2) >92% on room air)	a. Patients with onset within 1 week of known clinical insult (pneumonia) or new or worsening respiratory symptoms, progressing infiltrates on chest X-ray or chest CT scan, with respiratory failure not fully explained by cardiac failure or fluid overload
2. Child with clinical signs of non-severe pneumonia (cough or difficulty of breathing and fast breathing [ < 2 months: > 60; 2-11 months: > 50; 1-5 years: > 40] and/or chest indrawing)	2. <b>Sepsis</b>
SEVERE	a. Adults with life-threatening organ dysfunction caused by a dysregulated host response to suspected or proven infection. Signs of organ dysfunction include altered mental status, difficult or fast breathing, low oxygen saturation, reduced urine output, fast heart rate, weak pulse, cold extremities or low blood pressure, skin mottling, or laboratory evidence of coagulopathy, thrombocytopenia, acidosis, high lactate or hyperbilirubinemia
1. Adolescent or adult with <b>clinical signs of severe pneumonia or severe acute respiratory infection</b> as follows: fever, cough, dyspnea, RR>30 breaths/minute, severe respiratory distress or SpO2 < 92% on room air	b. Children with suspected or proven infection and > 2 age-based systemic inflammatory response syndrome criteria (abnormal temperature > 38.5 °C or < 36 °C); tachycardia for age or bradycardia for age if < 1 year; tachypnea for age or need for mechanical ventilation; abnormal white blood cell count for age or > 10% bands), of which one must be abnormal temperature or white blood cell count.
2. Child with clinical signs of pneumonia (cough or difficulty in breathing) plus at least one of the following:	3. <b>Septic Shock</b>
a. Central cyanosis or SpO2 < 90%; severe <b>respiratory distress</b> (e.g. fast breathing, grunting, very severe chest indrawing); general danger sign: <b>inability to breastfeed or drink, lethargy or unconsciousness</b> , or convulsions.	a. Adults with persistent hypotension despite volume resuscitation, requiring vasopressors to maintain MAP > 65 mmHg and serum lactate level >2mmol/L
b. <b>Fast breathing (in breaths/min): &lt; 2 months: &gt; 60; 2-11 months: &gt; 50; 1-5 years: &gt; 40.</b>	b. Children with any hypotension (SBP < 5th centile or > 2 SD below normal for age) or two or three of the following: altered mental status; bradycardia or tachycardia (HR < 90 bpm or > 160 bpm in infants and heart rate < 70 bpm or > 150 bpm in children); prolonged capillary refill (> 2 sec) or weak pulse; fast breathing; mottled or cool skin or petechial or purpuric rash; high lactate; reduced urine output; hyperthermia or hypothermia.