Health workers exposure risk assessment and management in the context of COVID-19 virus

Interim guidance 4 March 2020



Coronavirus disease (COVID-19) was first detected in Wuhan city, China in December 2019. On 30 January 2020, the WHO Director General declared that the current outbreak constituted a Public Health Emergency of International Concern.

Current available evidence is that the COVID-19 virus is transmitted between people through close contact and droplets. People most at risk of infection are those who are in contact with a COVID-19 patient and/or who care for COVID-19 patients. This inevitably places health workers at a high risk of infection.

Target audience:

This tool is to be used by health care facilities that have either cared for or admitted COVID-19 patients. This form is to be completed for all health workers who have been exposed to a confirmed COVID-19 patient in a health care facility. It is intended to be an operational tool used by health care facilities once a COVID-19 patient has been identified within the facility. This tool will help determine the risk of COVID-19 virus infection of all HCWs who have been exposed to a COVID-19 patient and then provides recommendations for appropriate management of these HCWs, according to their infection risk.

Objectives:

- 1. To determine the risk categorization of each HCW after exposure to a COVID-19 patient (see below Part 1: COVID-19 virus exposure risk assessment form for HCWs);
- 2. To inform the management of the exposed HCWs based on risk (see below Part 2: Management of health worker exposed to COVID-19 virus).

Part 1: COVID-19 virus assessment of risk of exposure for health workers in health care facilities

Protecting HCWs is of paramount importance to WHO. Understanding HCW exposure to COVID-19 virus and how this translates into risk of infection is critical for informing infection prevention and control (IPC) recommendations. The data that will be captured using this data collection form and risk assessment tool can be used to identify IPC breaches and define policy to mitigate health worker and nosocomial infection. As such, health care facilities using the following risk assessment are encouraged to share deidentified data with WHO to inform discussions about WHO guidance related to IPC. That is, any data shared with WHO should not include any personably identifiable information (Questions 2A, 2B and 2G).

1. Interviewer information	
A. Interviewer name:	
B. Interviewer date (DD/MM/YYYY):	
C. Interviewer phone number:	
D. Does the health worker have a history of staying in the same household or classroom environment with a confirmed COVID-19 patient?	□ Yes □ No
E. Does the HCW have history of traveling together in close proximity (within 1 meter) with a confirmed COVID-19 patient in any kind of conveyance?	□ Yes □ No

If the HCW answers yes for questions 1 D - 1E it is considered a community exposure to COVID-19 virus and health workers should be managed as such. The management recommendations in Part 2: Management of health workers exposed to COVID-19 virus apply only to health care-related exposure.

2. Health worker information	
A. Last name:	
B. First name:	
C. Age	
D. Sex:	□ Male □ Female □ Prefer not to answer
E. City:	
F. Country:	
G. Contact details:	
H. Type of health care personnel:	Medical doctor
	Physician assistant
	Registered nurse (or equivalent)
	Assistant nurse, nurse technician (or equivalent)
	Radiology /x-ray technician
	Phlebotomist
	Ophthalmologist
	Physical therapist
	Respiratory therapist
	Nutritionist/dietitian
	🗆 Midwife
	Pharmacist
	Pharmacy technician or dispenser

	 Laboratory personnel Admission/reception clerk Patient transporter Catering staff Cleaner
	□ Other (specify):
I. Health care facility unit type in which the health worker works?	Tick all that apply: Outpatient Emergency Medical unit Intensive care unit Cleaning services Laboratory Pharmacy Other, specify:
3. Health worker interactions with COVID-19 p	atient information
A. Date of health worker first exposure to confirmed COVID-19 patient:	Date (DD/MM/YYYY)://
B. Name of health care facility where case received care:	
C. Type of health care setting:	 Hospital Outpatient clinic Primary health centre Home care for mild cases Other:
D. City:	
E. Country:	
F. Multiple COVID-19 patients in health care facility	 Yes Do Duknown Number of patients (approximate if exact number

4. Health worker activities performed on COVI	D-19 patient
A. Did you provide direct care to a confirmed COVID-	🗆 Yes 🗆 No 🗆 Unknown
19 patient?	
B. Did you have face-to-face contact (within 1	🗆 Yes 🗆 No 🗆 Unknown
meter) with a confirmed COVID-19 patient in a	
health care facility?	
C. Were you present when any aerosol generating	🗆 Yes 🗆 No 🗆 Unknown
procedures (AGP) was performed on the patient?	
See below for examples	
 If yes, what type of AGP procedure? 	Tracheal intubation
	Nebulizer treatment
	Open airway suctioning
	Collection of sputum
	Tracheostomy
	Bronchoscopy
	 Cardiopulmonary resuscitation (CPR)
	Other, specify:

D. Did you have direct contact with the environment where the confirmed COVID-19 patient was cared for? E.g. bed, linen, medical equipment, bathroom etc.	🗆 Yes 🗆 No 🗆 Unknown
E. Were you involved with health care interaction(s) (paid or unpaid) in another health care facility during the period above?	 Other health care facility (public or private) Ambulance Home care No other health care facility

Exposure of health workers to COVID-19 virus

If the health worker responds 'Yes' to any of the Questions 4A – 4C, the health worker should be considered as being **exposed to COVID-19 virus**

5. Adherence to infection prevention and control (IPC) during health care interactions	
For the following questions, please quantify the frequency you wore PPE, as recommended: 'Always, as recommended' should be considered wearing the PPE when indicated more than 95% of the time; 'Most of the time' should be considered 50% or more but not 100%; 'occasionally' should be considered 20% to under 50% and 'Rarely' should be considered less than 20%.	
A. During the period of a health care interaction with a COVID-19 patient, did you wear personal protective equipment (PPE)?	🗆 Yes 🗆 No
 If yes, for each item of PPE below, indicate how often you used it: 	
- 1. Single gloves	 Always, as recommended Most of the time (50% or more but not 100%) Occasionally 20% to under 50%) Rarely (less than 20% of the time)
- 2. Medical mask	 Always, as recommended Most of the time Occasionally Rarely
- 3. Face shield or goggles/protective glasses	 Always, as recommended Most of the time Occasionally Rarely
- 4. Disposable gown	 Always, as recommended Most of the time Occasionally Rarely
B. During the period of health care interaction with the COVID-19 patient, did you remove and replace your PPE according to protocol (e.g. when medical mask became wet, disposed the wet PPE in the waste bin, performed hand hygiene, etc)?	 Always, as recommended Most of the time Occasionally Rarely
C. During the period of health care interaction with the COVID-19 case, did you perform hand hygiene before and after touching the COVID-19 patient? NB: Irrespective of wearing gloves	 Always, as recommended Most of the time Occasionally Rarely
D. During the period of health care interaction with the COVID-19 case, did you perform hand hygiene	 Always, as recommended Most of the time

before and after any clean or aseptic procedure was performed (e.g. inserting: peripheric vascular catheter, urinary catheter, intubation, etc.)?	 Occasionally Rarely
E. During the period of health care interaction with the COVID-19 case, did you perform hand hygiene after exposure to body fluid?	 Always, as recommended Most of the time Occasionally Rarely
F. During the period of health care interaction with the COVID-19 case, did you perform hand hygiene after touching the COVID-19 patient's surroundings (bed, door handle, etc)? Note: this is irrespective of wearing gloves	 Always, as recommended Most of the time Occasionally Rarely
G. During the period of health care interaction with the COVID-19 case, were high touch surfaces decontaminated frequently (at least three times daily)?	 Always, as recommended Most of the time Occasionally Rarely

6. Adherence to infection prevention and control (IPC) when performing aerosol generating procedures (e.g. Tracheal intubation, nebulizer treatment, open airway suctioning, collection of sputum, tracheostomy, bronchoscopy, cardiopulmonary resuscitation (CPR) etc.)

For the following questions, please quantify the frequency you wore PPE, as recommended: 'Always, as recommended' should be considered wearing the PPE when indicated more than 95% of the time; 'Most of the time' should be considered 50% or more but not 100%; 'occasionally' should be considered 20% to under 50% and 'Rarely' should be considered less than 20%.

A. During aerosol generating procedures on a COVID-19 patient, did you wear personal protective equipment (PPE)?	□ Yes □ No
 If yes, for each item of PPE below, indicate how often you used it: 	
- 1. Single gloves	 Always, as recommended Most of the time Occasionally Rarely
- 2. N95 mask (or equivalent respirator)	 Always, as recommended Most of the time Occasionally Rarely
- 3. Face shield or goggles/protective glasses	 Always, as recommended Most of the time Occasionally Rarely
- 4. Disposable gown	 Always, as recommended Most of the time Occasionally Rarely
- 5. Waterproof apron	 Always, as recommended Most of the time Occasionally Rarely

B. During aerosol generating procedures on the	Always, as recommended
COVID-19 patient, did you remove and replace your	Most of the time
PPE according to protocol (e.g. when medical mask	Occasionally
became wet, disposed the wet PPE in the waste bin,	Rarely
performed hand hygiene, etc)?	
C. During aerosol generating procedures on the	Always, as recommended
COVID-19 case, did you perform hand hygiene	Most of the time
before and after touching the COVID-19 patient?	Occasionally
NB: Irrespective of wearing gloves	🗆 Rarely
D. During aerosol generating procedures on the	Always, as recommended
COVID-19 case, did you perform hand hygiene	Most of the time
before and after any clean or aseptic procedure was	Occasionally
performed (e.g. inserting: peripheric vascular	🗆 Rarely
catheter, urinary catheter, intubation, etc.)?	
E. During aerosol generating procedures on the	Always, as recommended
COVID-19 case, did you perform hand hygiene after	Most of the time
touching the COVID-19 patient's surroundings (bed,	Occasionally
door handle, etc)?	Rarely
Note: This is irrespective of wearing gloves	
F. During aerosol generating procedures on the	Always, as recommended
COVID-19 case, were high touch surfaces	Most of the time
decontaminated frequently (at least three times	Occasionally
daily)?	Rarely

7. Accidents with biological material	
A. During the period of a health care interaction with a COVID-19 infected patient, did you have any episode of accident with biological fluid/respiratory secretions? See below for examples	□ Yes □ No
- If yes, which type of accident?	 Splash of biological fluid/respiratory secretions in the mucous membrane of eyes Splash of biological fluid/respiratory secretions in the mucous membrane of mouth/nose Splash of biological fluid/respiratory secretions on non-intact skin

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