

TABLE 1: RECOMMENDED PPE TO BE USED WHEN MANAGING PATIENT UNDER INVESTIGATION (PUI) OR CONFIRMED COVID-19 PATIENT

SETTING	TARGET PERSONNEL	ACTIVITY	TYPE OF PPE
Any Areas in Healthcare Facility	HCW	Direct contact with any patient (Non PUI/confirmed COVID-19 patient OR patient without respiratory symptoms)	<ul style="list-style-type: none"> • Surgical mask • Frequent hand hygiene
EMERGENCY DEPARTMENT			
Primary Triage	HCW	Involved in triaging patients Maintain more than 1 metre spatial distance at all times * May use physical barriers (such as glass or plastic windows or face shield) to reduce exposure	<ul style="list-style-type: none"> • Surgical mask • Frequent hand hygiene * Full PPE set must be made available at the site in case of emergency
Patient Waiting Area	Patients	Patient with respiratory symptoms * Should be seated at the designated area and to sit at least 1 metre apart	<ul style="list-style-type: none"> • Patient to wear a surgical mask
Secondary Triage	HCW	History taking and physical examination * patient should be reminded to wear a surgical mask when the HCW enters the cubicle /triage examination area	<ul style="list-style-type: none"> • Surgical mask • Isolation Gown (fluid-repellent long-sleeved gown) OR long-sleeved plastic apron • Gloves • Eye Protection (face shield/goggles)

			<ul style="list-style-type: none"> • Boot cover/shoe cover (ONLY when anticipating spillage and vomiting)
Examination Room/ Consultation Room	HCW	<p>History taking and physical examination</p> <p>* patient should be reminded to wear a surgical mask when the HCW enters the room</p>	<ul style="list-style-type: none"> • Surgical mask • Isolation Gown (fluid-repellent long-sleeved gown) OR long-sleeved plastic apron • Gloves • Eye Protection (face shield/goggles) • Boot cover/shoe cover (ONLY when anticipating spillage and vomiting)
	Cleaners	<p>Cleaning the examination room/consultation room</p> <p>* Increase frequency of cleaning for frequently touched surfaces</p>	<ul style="list-style-type: none"> • Surgical mask • Long-sleeved plastic apron • Gloves • Eye Protection (face shield/goggles) • Boots or closed shoes
Ambulance transfer vehicle	Driver	<p>Involved in driving the patient with PUI/confirmed COVID-19 BUT NO direct contact with patient.</p> <p>Also involved in loading and unloading of patients</p> <p>Always maintain at foot end of stretcher</p> <p>*Windows should be kept open throughout the drive (about 3cm only)</p> <p>* Use aircon with fresh air intake</p>	<ul style="list-style-type: none"> • Surgical mask • Isolation Gown (fluid-repellent long-sleeved gown) OR long-sleeved plastic apron • Gloves • Eye Protection (face shield/goggles)

HCW

Transporting PUI/confirmed COVID-19 patient to the referral health care facility

Healthcare worker seating arrangement(Figure 1):

A & B:When patient is not indistress

C:When patient requires oxygen support/ intervention

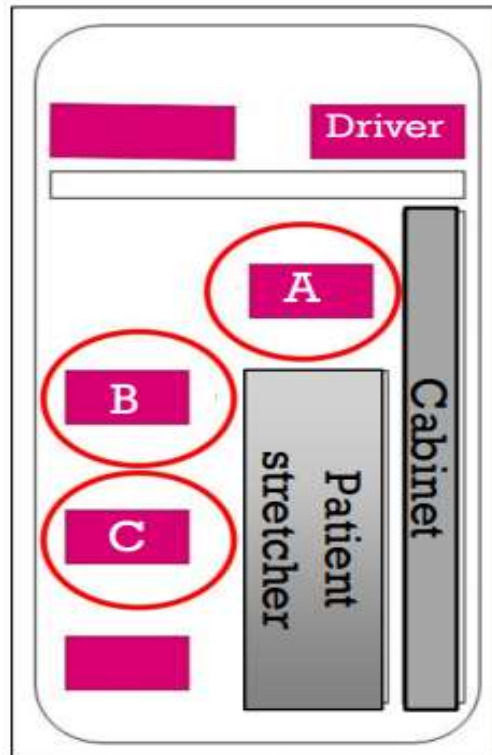


Figure 1: Ambulance

- N95 mask
- Isolation Gown (fluid-repellent long-sleeved gown)
- Gloves
- Eye Protection (face shield/goggles)
- Head cover

Ambulance Transport Vehicle	HCW	Decontamination of ambulance that transported PUI/confirmed COVID-19 patient	<ul style="list-style-type: none"> • Surgical mask • Long-sleeved plastic apron • Gloves • Eye Protection (face shield/goggles) • Boots or closed shoes
Patient Cubicle/Resuscitation Zone	HCW	<p>Performing Aerosol Generating Procedures (AGP) on PUI/confirmed COVID-19 patients</p> <ul style="list-style-type: none"> • Intubation, extubation and related procedures /CPR • Tracheotomy/tracheostomy procedures • Manual ventilation • Suctioning • Bronchoscopy • Nebulization • Others – Refer Guideline 	<p>Minimum Recommendation:</p> <ul style="list-style-type: none"> • N95 mask • Isolation Gown (fluid-repellent long-sleeved gown) with plastic apron • Gloves • Eye Protection (face shield/goggles) • Head cover • Boot cover/shoe cover
Specimen Collection Area	HCW	<p>Performing oropharyngeal or nasopharyngeal swab</p> <p>**It is sufficient to change gloves and plastic apron between patients.</p> <p>Any soiled protective equipment's should also be changed</p>	<ul style="list-style-type: none"> • N95 mask • Gloves** • Isolation Gown (fluid-repellent long-sleeved gown) • Long-sleeved plastic apron** • Eye protection (face shield/goggles) • Head cover • Boot cover/shoe cover (ONLY when anticipating spillage and vomiting)

INPATIENT FACILITIES			
Patient Room	HCW	Providing care PUI/confirmed COVID-19 patients who are not intubated and able to wear surgical mask	<ul style="list-style-type: none"> • Surgical mask • Isolation Gown (fluid-repellent long-sleeved gown) • Gloves • Eye Protection (face shield/goggles) • Boot cover/shoe cover (ONLY when anticipating spillage and vomiting)
		Providing care to PUI/confirmed COVID-19 patients who are not intubated but NOT able to wear surgical mask	<ul style="list-style-type: none"> • N95 mask • Isolation Gown (fluid-repellent long-sleeved gown) • Gloves • Eye Protection (face shield/goggles) • Head cover • Boot cover/shoe cover (ONLY when anticipating spillage and vomiting)
		Performing oropharyngeal or nasopharyngeal swab to PUI/confirmed COVID-19 patients	<ul style="list-style-type: none"> • N95 mask • Isolation Gown (fluid-repellent long-sleeved gown) • Gloves • Eye Protection (face shield/goggles) • Head cover • Boot cover/shoe cover (ONLY when anticipating spillage and vomiting)
		Providing care to PUI/confirmed COVID-19 patients who are ventilated in a closed circuit	<ul style="list-style-type: none"> • N95 mask • Isolation Gown (fluid-repellent long-sleeved gown) • Gloves • Eye Protection (face shield/goggles)

Patient Room	HCW		<ul style="list-style-type: none"> • Head cover • Boot cover/shoe cover (ONLY when anticipating spillage and vomiting)
		<p>Performing Aerosol Generating Procedures (AGP) on PUI/confirmed COVID-19 patients</p> <ul style="list-style-type: none"> • Intubation, extubation and related procedures; • Tracheotomy/tracheostomy procedures; • Manual ventilation; • Suctioning; • Bronchoscopy; • Nebulization • Non-invasive ventilation (NIV) e.g. Bi-level Positive Airway Pressure (BiPAP) and Continuous Positive Airway Pressure ventilation (CPAP); • Surgery and post-mortem procedures in which high-speed devices are used; • High-frequency oscillating ventilation (HFOV); • High-flow Nasal Oxygen (HFNO) • Induction of sputum • Dental procedures <p>*Detailed information, refer to Intensive care preparedness and management for COVID-19</p>	<p>Option 1 (Preferred):</p> <ul style="list-style-type: none"> • Powered air-purifying respirator (PAPR) • Isolation Gown (fluid-repellent long-sleeved gown) with plastic apron / Coverall suit • Gloves • Eye Protection (face shield/goggles)* • Boot cover/shoe cover <p>*Depends on type of PAPR</p>
			<p>Option 2:</p> <ul style="list-style-type: none"> • Coverall suit • N95 mask • Eye Protection (face shield/goggles) • Gloves • Boot cover/shoe cover <p>Option 3 (if Option 1 & 2 not available):</p> <ul style="list-style-type: none"> • N95 mask • Isolation Gown (fluid-repellent long-sleeved gown) with plastic apron • Gloves • Eye Protection (face shield/goggles) • Head cover • Boot cover/shoe cover

Patient Room	HCW	Transporting specimen to lab	<ul style="list-style-type: none"> • Surgical mask • Gloves • Plastic Apron (optional)
	Cleaners	<p>Cleaning the PUI/confirmed COVID-19 patient's room; who is not intubated and able to wear surgical mask</p> <p>*If COVID-19 patient is discharge, it is recommended for cleaners to enter the room after about 45 minutes if the (Air changes per hour rate) ACHR is not known</p>	<ul style="list-style-type: none"> • Surgical mask • Isolation Gown (fluid-repellent long-sleeved gown) • Gloves • Eye Protection (face shield/goggles) • Boots or closed shoes
		<p>Cleaning the PUI / confirmed COVID-19 patients' room; who are not intubated but NOT able to wear surgical mask</p> <p>*If COVID-19 patient is discharge, it is recommended for cleaners to enter the room after about 45 minutes if the ACHR is not known</p>	<ul style="list-style-type: none"> • N95 mask • Isolation Gown (fluid-repellent long-sleeved gown) • Gloves • Eye Protection (face shield/goggles) • Head cover • Boots or closed shoes
Laboratory	HCW	<ul style="list-style-type: none"> • Manipulation of respiratory specimens which include oropharyngeal swabs, nasopharyngeal swabs, sputum, tracheal aspirate, bronchoalveolar lavage (BAL) must be accorded high risk • Specimen handling for RT-PCR or Antigen testing prior to viral inactivation step, must be carried out in BSL-2 or equivalent facilities 	<ul style="list-style-type: none"> • N95 mask • Isolation Gown (fluid-repellent long-sleeved gown) • Gloves • Eye Protection (face shield/goggles) • Head cover • Boots or closed shoes

Laboratory	HCW	Handling and processing of specimens from PUI/ confirmed COVID-19 intended for additional laboratory tests, such as haematology, microbiology, biochemistry, cytology or histopathological processing should apply standard precautions to provide a barrier between the specimen and personnel	<ul style="list-style-type: none"> • Surgical mask • Isolation Gown (fluid-repellent long-sleeved gown) • Gloves • Eye Protection (face shield/goggles) • Boots or closed shoes
Outside patient room (more than 1-2 meters)	All staff including HCW	Any activity that does not lead to contact with PUI/confirmed COVID-19	<ul style="list-style-type: none"> • Surgical mask • Frequent hand hygiene
ADMINISTRATIVE AREAS/ PUBLIC AREAS			
Any Areas	All staff	Any activities not involving direct contact with patient	No PPE needed
	Security Officer	Security officers in healthcare facilities Maintain more than 1 metre spatial distance at all times	<ul style="list-style-type: none"> • No PPE needed *However, use surgical mask if unable to maintain spatial distance of more than 1 metre. <ul style="list-style-type: none"> • Frequent hand hygiene

TABLE 2: RECOMMENDED PPE TO BE USED WHEN ATTENDING OR TREATING SEVERE ACUTE RESPIRATORY INFECTION (SARI)/INFLUENZA LIKE ILLNESS (ILI) PATIENT

SETTING	TARGET PERSONNEL	ACTIVITY	TYPE OF PPE
Any Areas in Healthcare Facility	HCW	Direct contact with any patient (Non PUI/confirmed COVID-19/SARI/ILI patient OR patient without respiratory symptoms)	<ul style="list-style-type: none"> • Surgical mask • Frequent hand hygiene
SEVERE ACUTE RESPIRATORY INFECTION (SARI) PATIENT			
SARI areas/ cubicles	HCW	Providing care and able to maintain 1-2metres spatial distance at all time *patient should be reminded to wear a surgical mask (if tolerable) If not tolerable, advise the patient to cover nose and mouth during coughing or sneezing with tissue or flexed elbow.	<ul style="list-style-type: none"> • Surgical mask • Frequent hand hygiene
		Providing care and unable to maintain 1-2metres spatial distance at all time *patient should be reminded to wear a surgical mask (if tolerable) If not tolerable, advise the patient to cover nose and mouth during coughing or sneezing with tissue or flexed elbow.	<ul style="list-style-type: none"> • Surgical mask • Gloves • Long-sleeved plastic apron • Eye protection (face shield/goggles) – when anticipating patient’s respiratory secretion

SARI areas/ cubicles	HCW	Performing Aerosol Generating Procedures (AGP) <ul style="list-style-type: none"> • High-flow mask oxygen • Intubation • Suctioning • Nebulization • CPR Also when performing oropharyngeal or nasopharyngeal swab	<ul style="list-style-type: none"> • N95 mask • Gloves • Isolation Gown (fluid-repellent long-sleeved gown) • Eye protection (face shield/goggles) • Head cover • Boot cover/shoe cover (ONLY when anticipating spillage and vomiting) - not always necessary
INFLUENZA LIKE ILLNESS (ILI) PATIENT			
Examination Room / Consultation Room	HCW	History taking/physical examination/providing care *patient should be reminded to wear a surgical mask (if tolerable) If not tolerable, advise the patient to cover nose and mouth during coughing or sneezing with tissue or flexed elbow.	<ul style="list-style-type: none"> • Surgical mask • Gloves • Long-sleeved plastic apron • Eye protection (face shield/goggles) – when anticipating patient’s respiratory secretion *Change plastic apron and gloves after examination of each patient
		Performing Aerosol Generating Procedures (AGP) <ul style="list-style-type: none"> • Intubation • Suctioning • Nebulization • CPR Also when performing oropharyngeal or nasopharyngeal swab	<ul style="list-style-type: none"> • N95 mask • Gloves • Isolation Gown (fluid-repellent long-sleeved gown) • Eye protection (face shield/goggles) • Head cover • Boot cover / shoe cover (ONLY when anticipating spillage and vomiting) - not always necessary

