

## SINGAPORE GENERAL HOSPITAL (SGH) CAMPUS

## PERSONAL PROTECTIVE EQUIPMENT (PPE) GUIDELINES TO BE USED IN THE CONTEXT OF COVID-19 ORANGE ALERT ACCORDING TO SETTING, PERSONNEL AND TYPE OF ACTIVITY

**Notes:**

(1) Practise **Standard Precautions (including hand hygiene with alcohol-based hand rub and 7 steps)** in all situations

(2) **Duration of Extended Use** for Surgical Mask, N95 Mask & Face Shield: **Up to 4 to 6 hours, or if soiled.**

N95 mask should be placed in a **new & clean** zip-lock bag each time the mask is removed.

**(3) Aerosol Generating Procedures**

\*Positive pressure ventilation (BIPAP, CPAP)

\*Intubation and extubation

\*Airway suctioning (if not closed suctioning system)

\*Oral suctioning

\*Tracheostomy suctioning

\*Chest physiotherapy

\*Nebulizer treatment

\*High flow nasal cannula therapy

\*Naso-pharyngeal/oral

pharyngeal swab collection

\*Sputum induction

\*Endoscopy (including bronchoscopy)

\*CPR

\*Manual ventilation (air-viva bagging) before intubation

\*High speed devices, excluding electrocautery or ligasure, used for surgical procedures involving intraluminal respiratory, gastrointestinal tract surgery, dental

\*Tracheostomy creation/insertion

\*Nasogastric tube insertion

**(4) Eye Protection**

Single Use: Disposable Face Shield

Re-Usable: Goggles - to be disinfected after each patient use

**(5) Surgical Masks**

High Risk Areas: Tie-on Surgical Mask

Other Areas: Loop-on Surgical Mask

**(6) All areas are to ensure that the necessary PPE are readily available to staff when required.**

**(7) Healthcare Workers (HCWs)** include (but is not limited to) doctors, dentists, pharmacists, nurses, nursing assistants, therapists, technicians, emergency medical service personnel, laboratory personnel, autopsy personnel, students and trainees, and persons (e.g. clerical, dietary, housekeeping, laundry, security, maintenance, administrative, billing, and volunteers) not directly involved in patient care but potentially exposed to infectious agents that can be transmitted between HCWs and patients; including contractual staff not employed by the health-care facility.

Setting	Target Personnel	Activity	Type of PPE
<b>Special Areas</b>			
Triage at Emergency Medicine	Healthcare workers	Preliminary screening	N95 mask
	Patient with URTI symptoms	NA	Provide surgical mask if tolerated by patient
Triage at Other Areas	All staff	Preliminary screening	Surgical mask
	Patient with URTI symptoms	NA	Provide surgical mask if tolerated by patient
Emergency Medicine Fever Areas	Healthcare workers	Providing direct patient care of suspect patient within 2 metre zone	N95 mask + eye protection + gown + gloves
		Aerosol generating procedures performed for all patients	N95 mask + eye protection + gown + gloves If <b>PAPR is used as an alternative to N95 mask:</b> PAPR + surgical mask + gown + glove
	Environmental Services cleaners	Environmental cleaning including washing of toilet and bathroom	N95 mask + eye protection + gown + gloves
	Patient	Awaiting care	Surgical mask
Emergency Medicine Fever Areas - other areas; e.g. corridors	Healthcare workers	No patient contact	N95 mask
Emergency Medicine Fever Area @ CCA - pneumonia patients	Healthcare workers	Providing direct patient care to patient	N95 mask + eye protection + gown + gloves
Emergency Medicine - Holding area for ARI patients to be admitted to ARI ward	Healthcare workers	Providing direct patient care to ARI patients at room 6 at Observation Ward	N95 mask + eye protection + gown + gloves
Emergency Medicine Non-fever areas	Healthcare workers	Providing direct patient care to patient	Surgical mask
	Environmental Services cleaners	Environmental cleaning including washing of toilet and bathroom	N95 mask + eye protection + gown + gloves
Staff Clinic at Bowyer's Block	Healthcare workers	Screening at Triage Area	N95 mask
		Registration Counter	N95 mask
		Providing direct patient care to a suspect case	N95 mask + eye protection + gown + gloves
		Aerosol generating procedures performed for all patients	N95 mask + eye protection + gown + gloves If <b>PAPR is used as an alternative</b> to N95 mask: PAPR + surgical mask + gown + glove
	Environmental Services cleaners	Environmental cleaning including washing of toilet and bathroom	N95 mask + eye protection + gown + gloves

Setting	Target Personnel	Activity	Type of PPE
Special procedural room/suites e.g. OT, IR	Healthcare workers	Emergency surgeries for confirmed / suspect cases	N95 mask (single use) + eye protection (single use) + disposable OT gown + gloves
<b>Fever Screening Area (FSA)</b>			
Triage at FSA	Healthcare workers	Initial assessment of patients	N95 mask + eye protection
	Security guard		N95 mask
Patient care areas	Healthcare workers	Escorting patient to cubicles	N95 mask + eye protection
		Escorting patient for throat swab / pharmacy	N95 mask + eye protection
		Providing direct patient care to a suspect case	N95 mask + eye protection + gown + gloves
		At clinical area and >2 metre away from suspect patient (outside cubicle, e.g. corridor)	N95 mask
		Aerosol generating procedures performed for all patients (e.g. oropharyngeal swab)	N95 mask + eye protection + gown + gloves If <b>PAPR is used as an alternative</b> to N95 mask: PAPR + surgical mask + gown + glove
	Security guard		N95 mask
	Environmental Services cleaners	Environmental cleaning of patient cubicle and/or high touch areas	N95 mask + eye protection + gown + gloves
Other areas	Security guard	Patrolling of FSA	N95 mask
	Porter	Carrying specimen with or without special biohazard container to laboratory for COVID-19 testing	Surgical mask
	Environmental Services cleaners	Environmental cleaning including washing of toilet	N95 mask + eye protection + gown + gloves
	Other personnel/staff	Delivering clean supply/food and not entering any clinical areas	Surgical mask

Setting	Target Personnel	Activity	Type of PPE
<b>Inpatient Facilities</b>			
Isolation Wards	Healthcare workers	Providing direct patient care to a <b>suspect / confirmed</b> COVID-19 case	N95 mask + eye protection + gown + gloves
		Providing direct patient care to a <b>confirmed</b> COVID-19 case in cohort areas	N95 mask + eye protection + extended use of gown ( <i>that is, do not need to change gown in-between patients in the same cohort area</i> ) + gloves (gloves will need to be changed in between each patient care)
		Entering Isolation Wards <b>without</b> patient contact or without entry to patient room/cubicle	N95 mask
		Entering Isolation Wards <b>without</b> patient contact or without entry to patient room/cubicle in W68A	Surgical mask
		Aerosol generating procedures performed for all patients (e.g. oropharyngeal swab)	N95 mask + eye protection + gown + gloves If <b>PAPR is used as an alternative</b> to N95 mask: PAPR + surgical mask + gown + glove
	Porter	Escorting patient to and from ward / for procedures	N95 mask + eye protection + gown + gloves
	Patient	Enroute to and from ward / for procedures	Surgical mask if tolerated
	Environmental Services cleaners	Environmental cleaning including washing of toilet and bathroom	N95 mask + eye protection + gown + gloves
Acute Respiratory Infection Wards (ARI) Wards	Healthcare workers	Providing direct patient care	N95 mask + eye protection + gown + gloves
		Entering ARI Wards <b>without</b> patient contact or without entry to patient room/cubicle	Surgical mask
		Aerosol generating procedures performed for all patients	N95 mask + eye protection + gown + gloves If <b>PAPR is used as an alternative</b> to N95 mask: PAPR + surgical mask + gown + gloves

Setting	Target Personnel	Activity	Type of PPE
Acute Respiratory Infection Wards (ARI) Wards	Healthcare workers	Performing non-invasive procedures on patients from ARI wards at other special areas (e.g. x-ray in DDR & etc)	N95 mask + eye protection + gown + gloves
	Porter	Escorting patient to and from ward / for procedures	N95 mask + eye protection + gown + gloves
	Patient	Enroute to and from ward / for procedures	Surgical mask if tolerated
	Environmental Services cleaners	Environmental cleaning including washing of toilet and bathroom	N95 mask + eye protection + gown + gloves
General Wards	Healthcare workers	Providing direct patient care	Surgical mask
		Aerosol generating procedures performed for all patients	N95 mask + eye protection + gown + gloves If <b>PAPR is used as an alternative</b> to N95 mask: PAPR + surgical mask + gown + gloves
	Porter	Escorting patient to and from ward / for procedures	Surgical mask
	Environmental Services cleaners	Environmental cleaning including washing of toilet and bathroom	N95 mask + eye protection + apron + gloves
	Patients	While in the wards (except eating and drinking) and leaving the wards to go to other locations	Encourage to don his/her own personal surgical mask or reusable cloth mask
Inpatient areas with high risk patients - haematology, oncology, renal, ICU, HD, ICA, Burns, neonatal, transplant	Visitors		Surgical mask
<b>Transfer</b>			
Patient Transfer	Security	Controlling traffic or lift	N95 mask
	Ambulance driver	Driving without patient contact	N95 mask
	Screeners at screening stations	Escorting patient to designated isolation room after triage	Surgical mask

Setting	Target Personnel	Activity	Type of PPE
<b>Outpatient Facilities</b>			
Consultation room	Healthcare workers	Providing direct patient care of suspect patient within 2 metre zone	N95 mask + eye protection + gown + gloves
		Providing direct patient care to pneumonia patient	N95 mask
		Providing direct patient care to other patients	Surgical mask
	Environmental Services cleaners	Environmental cleaning including washing of toilet and bathroom for suspect case	N95 mask + eye protection + apron + gloves
Waiting area	Patient with URTI symptoms		Provide surgical mask if tolerated by patient
Outpatient high risk patient areas e.g. haematology, oncology, transplant, etc	Healthcare workers	Providing direct patient care of <u>suspect</u> patient	N95 mask + eye protection + gown + gloves
		Providing direct patient care of <u>non-suspect</u> patient	Surgical mask
		Aerosol generating procedures performed for all patients	N95 mask + eye protection + gown + gloves If <b>PAPR is used as an alternative</b> to N95 mask: PAPR + surgical mask + gown + gloves
	Porter	Escorting suspect patient to and from ward	N95 mask + eye protection + gown + gloves
	Patient	Enroute to and from ward	Surgical mask if tolerated
	Visitors		Surgical mask
	Patients		Provide surgical mask if tolerated
All other areas	Environmental Services cleaners	Environmental cleaning including washing of toilet and bathroom	Surgical mask + eye protection + apron + gloves

Setting	Target Personnel	Activity	Type of PPE
<b>Others</b>			
Laboratory	Laboratory staff	Processing specimen for COVID-19 testing at BSC	N95 mask + gown + gloves
Administrative areas	All staff	Administrative tasks without any patient contact at all	Personal mask (including reusable cloth mask)
		Administrative tasks requiring staff to visit clinical areas	Surgical mask
<b>All Areas</b>			
All areas	All staff	Eating and drinking during meal break	PPE not required but social distancing (keep a distance of >1 metre)
		Resting at rest area (e.g. tea room)	Surgical mask or personal reusable cloth mask