

Coronavirus COVID-19

BC Centre for Disease Control | BC Ministry of Health



COVID-19: Emergency Prioritization in a Pandemic Personal Protective Equipment (PPE) Allocation Framework

Provincial COVID-19 Task Force March 25, 2020





If you have fever, a new cough, or are having difficulty breathing, call 8-1-1.



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Introduction

Purpose

The purpose of BC's *Emergency Prioritization in a Pandemic: Personal Protective Equipment (PPE) Allocation Framework* (the Framework) is to help guide health care providers in determining what type of PPE individuals working or visiting in health care settings will receive in the event of a pandemic when demand for PPE overwhelms supply.

Background

Emerging and re-emerging infectious diseases such as SARS, H5N1 (Avian Influenza), and H1N1 ("Swine Flu") have attracted significant attention. The impact on the health system from the additional clinical and operational demands to prevent, protect, and treat these diseases is substantial. Although the specific impacts to the health system associated with an infectious disease outbreak cannot be reliably predicted, an increase in the demand for health care resources can be anticipated. Establishing an appropriate supply and demand management policy of PPE before a shortage occurs is required to ensure that difficult decisions are made in an ethically just and clinically appropriate manner.

Building on previous provincial work¹, this Framework highlights the clinical, ethical, and operational structures and principles that must be considered to effectively manage the increased PPE required during a sustained increase in demand to the health system as a result of COVID-19. The expectation is that health authorities and other organizations providing health care will use this Framework both *before* a pandemic as a basis for preparatory work and *during* an outbreak as their Framework for decision-making.

The guidance in this Framework was developed following discussions with clinical and public health experts and clinical ethicists and is endorsed by the Provincial Health Officer (see Appendix A for key informants).

Scope

This Framework is specific to PPE in the context of a COVID-19 pandemic and applies to all individuals in British Columbia in all health care settings including staff, patients, residents living in long term care, and visitors to health care facilities. Ensuring good infection prevention control practices are in place. Diligent hand hygiene, physical distancing where possible, and not touching your face, are integral to the prevention of transmission and spread.

¹ BC's HINI Pandemic Influenza Response Plan – An Ethical Framework for Decision-Making: Supporting British Columbia's Pandemic Influenza Planning and Response.

Key Ethical Principles

The guiding principles for this Framework align with the COIVD-19 Ethical Decision-Making Framework (Appendix B):

- Respect
- The Harm Principle
- Fairness
- Lease Coercive and Restrictive Means
- Working Together
- Reciprocity
- Proportionality
- Flexibility
- Procedural Justice (i.e., good decision-making)
 - o Openness and transparency
 - o Inclusiveness
 - o Accountability
 - o Reasonableness

1. Activation & Implementation

This Framework will be triggered as a decision-making tool in the event of **catastrophic pandemic circumstances** and will only be implemented when:

- the supply of PPE is at critical levels;
- there is no clear path at procuring PPE in a timely manner;
- all attempts at procuring PPE have been exhausted;
- there is limited likelihood of restored supply prior to the exhaustion of some or all of the PPE required for use in care for patients or residents in long term care who are diagnosed or suspected cases; and
- the priority is to protect health care workers and therefore their ability to continue to provide health care becomes the primary end-point.

PPE Supply and Demand Monitoring

PPE supply and demand volumes are determined by the Provincial Health Services Authority (PHSA) Supply Chain and health authority operational leads across the province. In the event of a catastrophic pandemic, PPE supply and demand are to be monitored and assessed daily (at minimum) at both site and regional levels.

Stages of PPE in the Health Care System

When PPE resources become depleted, resource allocation decisions for the provision of health care will involve heightened ethical, medico-legal, and societal dimensions. Therefore, it is critically important that appropriate roles and responsibilities and priority use of PPE is determined in advance.

In the event of a catastrophic pandemic, PPE risk will be, or will be predicted to reach, Stages 4, 5, or 6 (with stages representing escalating shortages of PPE). However, even when PPE risk is at Stage 1, there are required actions that need to be taken to protect the supply. See Table 1, below. Additional guidance for all health care settings in the event of Stages 4, 5, and 6 are provided in Appendix C.

Activation

In the event of a Stage 4, Stage 5 or Stage 6 PPE risk, in consultation with clinical and public health experts and health system administrators, BC's Provincial Health Officer will direct the health system to activate and implement this Framework.

Activation will include:

- communication regarding appropriate use of PPE;
- **control** of the supply of PPE;
- conservation of PPE;
- **allocation** of PPE use to those health care providers with highest risk and providing the most essential services.
- continued monitoring and reassessment of the supply and associated stage.

It is recognized that the required actions taken according to each stage outlined below will include the previous required actions where possible.

Stage	Description	Required Actions		
1	All PPE item levels are fully intact and there is low probability that any item will be depleted in the foreseeable future. All PPE item levels remain intact but there is a possibility that at least one item will be depleted in the coming weeks.	 Continue to source current PPE items. Implement infection control practices of diligent hand hygiene, physical distancing where possible, and not touching your face. Implement approval strategies to ensure appropriate allocation of items Communicate PPE usage and allocation expectations. Monitor usage. Identify appropriate alternative PPE items. Develop contingency plans for implementation of alternative PPE items. Source current and alternative PPE items. Communicate PPE usage and allocation expectations. Monitor usage. Initiate all pre-work required to implement contingency plans. Implement contingency plans for implementation of alternative PPE. 		
3	All PPE levels remain intact but there is a very high probability at least one item will be depleted within the coming weeks.			
4	All PPE levels remain intact but at least one item will be depleted with a matter of days.	 Implement all contingency plans and further reallocation of PPE to priority areas. Extend use: Keep PPE on in between patient encounters, and if PPE is doffed, it must be replaced by a clean set. Wear the same procedure/surgical mask (or respirator, if applicable) and eye protection for repeated close contact encounters with all patients without removing the mask (or respirator) for entire shift. Eye protection will need to be cleaned at the end of the shift. Mask (or respirator) to be changed if the mask becomes wet, damaged, or soiled, when leaving the unit, and is to be worn for a maximum of one shift. If extended use of a gown is required, the gown should be changed if it becomes wet or soiled and is to be worn for a maximum of one shift. Gloves should be changed in between patients. Diligent hand hygiene is required before and after donning and doffing all PPE to reduce contamination. Cohort patients with confirmed COVID-19; staff should not move between suspect or confirmed COVID-19 patients and non-COVID-19 patients. Use appropriate PPE for COVID-19 (contact and droplet precautions). Use N95s beyond manufacturer's stated expiry date. Re-use N95 only where there are airborne precautions (e.g., TB). 		

		• Extended use of N95 for aerosol generating medical procedures for
		suspect or confirmed COVID-19.
		Communicate with stakeholders.
		Issue Provincial Health Officer directive.
		Implement 'next level down' PPE item for use.
		• Use PPE approved under standards from other countries when supply is
		critical if available.
	One PPE item has been depleted.	• Use of N95 respirators for healthcare delivery beyond manufacturer's
5		stated expiry date.
		• Disinfect single use PPE using UV light, steam or other chemicals (e.g.,
		ethylene oxide) where possible.
		• Extend use of reusable respirators for repeated close contact encounters
		with all suspected or confirmed COVID-19 patients, without removing the
		respirator. Keep PPE on in between patient encounters, and if PPE is
		doffed, it must be cleaned prior to donning again.
		Communicate with stakeholders.
	Multiple PPE itoms have been	Directive from Provincial Health Officer.
6	Multiple PPE items have been depleted.	• Implement 'next level down' PPE item for use.
		• Implement 'homemade' items (e.g., masks).
		• Use PPE not evaluated or approved.

2. Conservation and Supply Strategies for PPE

This Framework becomes an important lens when the PPE supply becomes critical and reaches Stages 4 through 6. **PPE supplies should be conserved; only those who need PPE should use it.**

COVID-19 Specific PPE Conservation and Supply Strategies:

- Clearly communicate to staff that regular surgical / procedure masks and routine droplet PPE precautions provide appropriate protection against COVID 19;
- Do not order excessive amounts of personal protective equipment from the PHSA Supply Chain as a response to COVID-19 to avoid unnecessary stockpiling;
- Move to all health care workers wearing surgical mask, eye protection, gloves for all patent interactions in all settings, and diligent hand hygiene practices. This requires:
 - One mask per shift, changing the mask if it is too damp, soiled or damaged for safe use, and / or changing the mask if your shift includes a meal break
 - Eye protection (i.e., eye goggles or face shields) to be used throughout the shift with appropriate cleaning protocols. When goggles and face shields are depleted, safety glasses can be used with the same cleaning protocols in place.
 - Gloves can be changed between patients.
 - Diligent hand hygiene practices before and after donning and doffing equipment.

• Cohort health care workers by identifying (preferably those who volunteer first) and assigning designated teams of health care workers to provide care for patients with suspected or confirmed cases of COVID-19.

N95 Respirator Conservation and Supply Strategies:

- Restrict access to N95 respirators to those who require them for aerosol generating medical procedures and allow limited, extended use of N95s for repeated encounters with multiple patients (e.g., in TB clinics);
- Implement appropriate, alternative respirators in high use departments. This includes
 adopting alternative N95s (such as N99s, elastomeric half-mask and full facepiece air
 purifying respirators, and Powered Air-Purifying Respirators or PAPRs); reusable respirators
 (see Appendix D for more information on alternative products); and
- When N95s are depleted, use non- standard masks not evaluated or approved or homemade masks

Basic PPE Conservation and Supply Strategies:

- Use a formal, centralized process for PPE storage, management and distribution, including:
 - Using a central, managed location within each facility from which PPE supplies will be stored for distribution to approved departments;
 - Providing justification in the request for PPE for the amount of PPE inventory for each request;
 - o Identifying high risk units and delivering PPE to those units on a priority basis;
- Ensure appropriate use of PPE in all settings;
- Cease all non-essential education and training activities requiring PPE;
- Limit the number of staff allowed into a room for procedures required for care;
- Control access of non-essential staff and visitors to all facilities; and
- Engage in strategies to extend the use of PPE:
 - Re-use / clean products
 - o Use PPE beyond the manufacturer's stated expiry date
 - Use homemade PPE
 - \circ $\;$ Use alternative types of PPE that are not of accepted standard in Canada

3. Prioritization When PPE Supply is Critical

It must be noted that every life is equally worth saving. Determining who should receive scarce resources is based on equity – distribution based on medical need with a view to preserving life of health care workers to allow for provision of care to those in need.

Therefore, health care workers providing the most critical services who are at greatest risk will be given the highest prioritization. The highest risk to health care workers will exist where there is the highest possibility for transmission. Those who are most likely to transmit are the patients with the highest viral load.

Using Exclusion Criteria for Prioritization of PPE in a Pandemic

During a catastrophic pandemic, prioritizing scarce PPE in will result in a lower standard of protection; therefore, prioritization must only be enacted to respond to situations according to Stages 4 through 6. The successful and ethical implementation of this triage requires a fair and standardized approach across all facilities. All areas are expected to use this approach to ensure provincial consistency and working together to best protect the health needs of British Columbians.

During a catastrophic pandemic, a subset of usual data will be designated for more timely collection to support the calculation of the scoring needed for prioritization. This will provide real time information specific to the disease event to allow any necessary adjustments of prioritization criteria. For example, if research and analysis show that more effective or appropriate prioritization will occur if certain variable(s) are more heavily weighted, these can be implemented in a standardized way across all critical care areas.

Moving through the risk stratification the following prioritization list has been developed with number 1 considered highest priority for PPE to address those areas with a potential higher rate of transmission and spread:

Priority	Health Care Worker				
1	Critical Care Staff				
2	Staff working on COVID-19 cohorted units or wards				
3	Emergency and primary care workers				
4	LTC settings				

Indefensible Criteria

Maximizing quality of life and minimizing pain and suffering are universal goals of the health care system and are not subject to characteristics such as socioeconomic status, where one lives, or what language one speaks. However, those types of characteristics do enter into social judgments; therefore, care must be taken to ensure that these types of characteristics are not used to make or guide allocation decisions.

There may be circumstances when we prioritize a specific population within a high priority category, such as frail or immunocompromised health care staff, because the allocation of the limited PPE resources will do **the greatest good by preventing transmission to those who would be most affected** by the disease and **ensuring those staff with the most clinical experience will be able to continue working.**

4. Reassessment & Withdrawal

Priority will continue to be placed on obtaining the PPE supply. A continual assessment of the supply chain is occurring. When PPE supply becomes available, PPE will be distributed to all health care workers according to the stage of the supply available.

5. Clinical Information

As information becomes available regarding the transmission of COVID-19, the guidelines will be adapted and updated to reflect the current understanding.

6. Communication Considerations

Good disaster response depends on a level of operational interdependency and horizontal communication that is uncommon in normal operations. Please refer to the *Pandemic Communications Plan for BC* for a detailed overview of the communications strategy: https://www2.gov.bc.ca/assets/gov/health/about-bc-s-health-care-system/office-of-the-provincial-health-officer/reports-publications/bc-pandemic-influenza-communication-and-education-framework-2012.pdf)

7. Ethical Considerations for PPE Prioritization SBARs

Distribution of Critically Scarce PPE for Health Authorities and other Public and Private Services that Deliver Health Care

Situation

The COVID-19 pandemic presents a number of significant ethical issues regarding staff/physician safety. This SBAR discusses the following ethical question and provides recommendations for consideration:

How should PPE resources be distributed / allocated in times of critical scarcity?

Background

The ethical analysis and recommendations in this report follows the *BC COVID-19 Ethical Decision-Making Framework (EDMF): Interim Guidance* (in draft, effective March 2020, and appended as

Appendix B). This EDMF reflects the core ethical principles of public health ethics: respect; the harm principle; fairness; consistency; least coercive and restrictive means; working together; reciprocity; proportionality; flexibility; and procedural justice.

Assessment:

PPE should be distributed to health care settings where health care workers are providing patient care that poses the greatest risk to the personal safety of health care workers.

Key / Assumed Facts

- COVID-19 is understood to be a highly infective and easily transmittable virus.
- The transmission of COVID-19 is primary through droplet spread.²
- Some procedures may generate aerosols composed of particles suspended in air. The process of caring for severe COVID-19 patients and performing aerosol generating medical procedures in this group presents an increased risk of infection to health care workers.³
- Appropriate PPE has been defined for both droplet and airborne risks; appropriate PPE is considered an effective risk mitigating strategy when used properly.
- Diligent hand hygiene is critical to prevent the transmission and spread.
- Harm to health care workers in key sectors of the health care system (i.e., acute and critical care, specialty services) could greatly impact the ability of the health care system to respond to any acutely ill patient, including those who acquire COVID-19.
- There will be areas in the province with a higher rate of transmission and spread and will have higher needs for PPE.
- The probability of COVID-19 spread is very high if not contained. The risk of harm to the society is therefore also high and needs to be factored into any ethical response.
- There are PPE demands to provincial and regional supply centres (e.g., PHSA Supply Chain, health authorities) from other public and private services delivering health care.

Values grounding decisions

- Care provider safety, well-being
 - Aimed at maximizing the risk mitigation for health care workers engaged in the highest risk care and minimizes the risk of exposing vulnerable health care workers to COVID-

² See: Brewster, D., Chrimes, N., Do, T. et al. (2020). Consensus statement: Safe airway society principles of airway management and tracheal intubation specific to the COVID-19 adult patient group. *Medical Journal of Australia*. (Published online 15 March 2020. Available: <u>https://www.mja.com.au/journal/2020/212/10/consensus-statement-safe-airway-society-principles-airway-management-and</u>)

³ Brewster, Chrimes, Do et al. (2020) noted the following AGPs: coughing/sneezing, NIV or PPV with inadequate seal, HFNP, delivery of nebulized medications via simple face mask, CPR prior to intubation, tracheal suction, tracheal extubation (see Table 1).

19 and other infectious disease and minimizes the risk of other harms (e.g., physical, moral, psychosocial).

- Reciprocity
 - Reciprocity requires that society supports those who face a disproportionate burden in protecting the public good and take steps to minimize burdens as much as possible.
 - Measures to protect the public good (e.g., treating acutely ill patients who have acquired COVID-19) impose a disproportionate burden on health care workers. Those health care workers providing direct care in the highest risk settings incur the greatest burden.
 - Health care professionals who receive an allocation of PPE have a duty to use these resources to maximize efficiency and to minimize waste. Efficiency means that each use of any PPE must be based on evidence for this specific activity and in relation to the specific disease.
 - Each instance of inefficient use of PPE impacts everyone and can cause harm, therefore compliance is essential and should be mandatory.
- Procedural justice
 - Reflects the best available evidence, and ensures assumptions made are well grounded and defensible.
- The harm principle (public safety)
 - Minimizes the risk to the public of exposure to COVID-19.
 - Promoting the common good means retaining and preserving specialist medical resources, including health care worker skill and knowledge. Health care workers working in specialist areas (e.g., critical care, specialist acute settings) should be protected with the goal of retaining their specialist knowledge for the good of society.
 - In the absence of standard PPE, acutely ill patients with COVID-19 face severely compromised care including the withholding of possibly beneficial and life-saving interventions if PPE is unavailable.

Values in tension with this decision

- Care provider safety, wellbeing, and sustainability
 - Health care workers working in areas that have less risk of COVID-19 and / or other infectious diseases will still face some risk; prioritizing PPE to health care workers who face the greatest risk will nonetheless impact those with lower exposure risks. Thus, *all other strategies* should be considered to prevent transmission in these other areas where all standard or alternative, yet adequate PPE may become unavailable

Recommendations:

- Employ maximal efforts to preserve existing supplies of PPE and ensure that they are used efficiently. Terms and conditions of use to receive an allocation of PPE and agreements for use should be considered. Likewise, agreements and commitments from recipients receiving PPE should also be considered.
- 2. There should be provincial coordination of all PPE supplies such that supply levels can be closely monitored and distributed based on need. Stockpiling and obtaining supplies from multiple sources should be actively discouraged.
- **3.** Prioritize PPE distribution to the areas currently facing a disproportionate need (e.g., areas providing care to patients with COVID-19 and where procedures are performed that expose health care workers to the greatest risk). Ensure consideration is also given to other essential non- health care workers in these areas such that those individuals are protected to ensure smooth running of critical care areas (e.g., housekeeping).
- **4.** Prioritize PPE distribution to segments of the health care workforce that are deemed to be the most vital in providing care to our sickest patients (e.g., critical care areas in COVID 'hotspots'; acute care units that cohort patients with COVID-19). Such health care workers provide health care services on the basis of unique clinical knowledge and skills.
- 5. The distribution of resources to other public and private health services delivering health care should be considered if such distribution would certainly prevent an increased demand on the areas of care facing the highest acuity, and the protection is offered to health care workers engaging in high risk care.
- **6.** Ensure regional and / or provincial endorsement of this guidance to uphold the value of consistency and working together.
- 7. Communicate this decision openly and transparently.

8. Other Ethical Considerations

Use of Non-Standard PPE When PPE is Critically Scarce

Situation

The COVID-19 pandemic presents a number of significant ethical issues regarding staff/physician safety. This SBAR discusses the following ethical question and provides recommendations for consideration:

In what circumstances is it ethically permissible to use non-standard PPE supplies when appropriate PPE is not available?

Background

The ethical analysis and recommendations in this report follows the *BC COVID-19 Ethical Decision-Making Framework (EDMF): Interim Guidance* (in draft, effective March 2020, and appended as Appendix B). This EDMF reflects core the ethical principles of public health ethics: respect; the harm principle; fairness; consistency; least coercive and restrictive means; working together; reciprocity; proportionality; flexibility; and procedural justice.

Assessment:

The use of non-standard equipment may be ethically justifiable in certain circumstances.

The term "non-standard" encompasses a variety of sub-optimal PPE equipment [e.g., lower grade equipment, using expired supplies, re-using supplies, sharing supplies with multiple patients, or using equipment longer than would usually be recommended (e.g., for several hours or for more than one patient)].

Key / Assumed Facts

- COVID-19 is understood to be a highly infective and easily transmittable virus.
- The probability of COVID-19 spread is very high if not contained. The risk of spread of COVID-19 to health care workers working in sites and / or areas where COVID-19 has been identified may be higher.
- The transmission of COVID-19 is primary through droplet spread.⁴
- Diligent hand hygiene practices are critical to prevent transmission and spread.
- Some procedures may generate aerosols composed of particles suspended in air. The process of caring for severe COVID-19 patients and performing aerosol generating medical procedures in this group presents an increased risk of infection to health care workers.⁵
- Appropriate PPE has been defined for both droplet and airborne risks; appropriate PPE is considered an effective risk mitigating strategy when used properly.
- Some health care workers may face increased personal risks in relation to sub-optimal PPE for COVID-19 (e.g., those who are older adults with frailty) and thus may deem some health care activities to be unjustifiably risky without appropriate PPE.

⁴ See: Brewster, D., Chrimes, N., Do, T. et al. (2020). Consensus statement: Safe airway society principles of airway management and tracheal intubation specific to the COVID-19 adult patient group. *Medical Journal of Australia*. (Published online 15 March 2020. Available: <u>https://www.mja.com.au/journal/2020/212/10/consensus-statement-safe-airway-society-principles-airway-management-and</u>)

⁵ Brewster, Chrimes, Do et al. (2020) noted the following AGPs: coughing/sneezing, NIV or PPV with inadequate seal, HFNP, delivery of nebulized medications via simple face mask, CPR prior to intubation, tracheal suction, tracheal extubation (see Table 1).

- Should health care workers inadvertently acquire COVID-19, risks of harm exist for both the
 individual health care workers as well as other patients and members of the health care
 system. The magnitude of the harm from COVID-19 to populations, and particularly to
 immune-compromised or frail older adults and those with comorbidities, is high and includes
 death.
- Harm to health care workers in key sectors of the health care system (i.e., acute and critical care, specialty services) could greatly impact the ability of the health care system to respond to any acutely ill patient, including those who acquire COVID-19.

Values grounding this decision

- Care provider safety, well-being
 - This decision minimizes the risk of exposing vulnerable health care workers to COVID-19 and other infectious disease and minimizes the risk of other harms (e.g., physical, moral, psychosocial).
- The harm principle (public safety)
 - o Minimizes the risk to the public of exposure to COVID-19
 - Minimizes the net harm to the public
 - Minimized the risk of harm to the specific population currently facing the greatest risk from COVID-19 (i.e., older adults, adults with frailty, adults with chronic health conditions and comorbidities)
- Reciprocity
 - Health care professionals who receive an allocation of PPE have a duty to use these resources to maximize efficiency and to minimize waste. Efficiency means that each use of any PPE must be based on evidence for this specific activity and in relation to the specific disease. Each instance of inefficient use of PPE impacts everyone and can cause harm therefore compliance is essential and should be mandatory.
- Proportionality
 - While this measure is especially restrictive, it is proportionate with the level of threat and risk associated with COVID-19.
- Procedural justice
 - Reflects the best available evidence, and ensures assumptions made are well grounded and defensible

Values in tension with this decision

- Least coercive and restrictive means
 - All efforts should be made to implement measures that are the least restrictive and coercive as possible.
- Patient wellbeing
 - In the absence of standard PPE, patients with COVID-19, and patients more generally, may receive a lower standard of care including the withholding of interventions if PPE is deemed inadequate.

Recommendations:

- Employ maximal efforts to preserve existing supplies of PPE and ensure that they are used efficiently. Terms and conditions of use to receive an allocation of PPE and agreements for use should be considered. Likewise, agreements and commitments from recipients receiving PPE should also be considered.
- Prioritize the highest quality PPE equipment to the workforce facing the greatest risk of COVID-19 transmission (e.g., health care workers working with confirmed COVID-19 patients). Ensure consideration is also given to other essential non-health care workers in these areas such that those individuals are protected to ensure smooth running of critical care areas (e.g., housekeeping).
- 3. Prioritize the distribution of the highest quality PPE to segments of the health care workforce that are deemed to be the most vital in providing care to our sickest patients (e.g., critical care areas in COVID 'hotspots'; acute care units that cohort patients with COVID-19). Such health care workers provide health care services on the basis of unique clinical knowledge and skills.
- 4. Categorize all non-standard equipment based on its quality level as far as possible (e.g., provide health care workers with a rating system to give each health care worker the maximal amount of information to judge their own safety in relation to their personal circumstances and the care activities they are engaging in). Provide explicit description and information about equipment categories and / or solutions that would be considered not safe and / or possibly more harmful to the health care worker.
- 5. Pro-actively strategize the workforce and seek to identify those who face both the least and greatest risk from COVID-19 and other infectious diseases. For example, some health care workers may themselves fit within categories where COVID-19 is known to cause particular harms, including death (e.g., frail older adults, those who are immunocompromised) and thus may face both certain and significant harms if they engage in particular activities (e.g., aerosol-generating procedures) for a person with known COVID-19).

- 6. Ensure transparency and clear information in the provision of non-standard equipment such that individuals are fully informed of the risks and limitations of the supplies they have been provided. Clear labelling, communication, and messaging will be essential.
- 7. Ensure regional and / or provincial endorsement of this guidance to uphold the value of consistency and working together.
- 8. Communicate this decision openly and transparently.

9. Legal and Risk Management

It is recommended that health authorities and others using this document initiate their own internal, legal review process should they have any concerns. This Framework is based on the best evidence at the time of writing.

10. Document Development and Review

In advance of developing this Framework, a provincial working group composed of ethicists, administration, and clinical health care providers came together to develop *BC's H1N1 Pandemic Influenza Response Plan – An Ethical Framework for Decision-Making: Supporting British Columbia's Pandemic Influenza Planning and Response* (Appendix G) to outline eight main principles for resource allocation. This Framework builds on that work and the University of Toronto's Joint Centre for Bioethics 'Stand on Guard for Thee, Ethical Considerations in Preparedness Planning for Pandemic Influenza' (Appendix F).

A group of clinical ethicists from across BC were engaged in rapid discussions to develop the SBARs for both distribution of critically scarce PPE and use of non-standard PPE. These SBARs were used to drive conversation across a broader audience using a framework for PPE using provided by the WHO⁶ and combining the work of Quinn Danyluk and Dave Keen of Fraser Health who developed the Stages of PPE Risk Assessment.

11. Quality Assurance and Research

Quality Assurance/Improvement: During the progression, evolution, and clinical management of pandemic cases there is heightened importance to ensure effective quality assurance and improvement processes and practices.

At a regional level, the Chief Operating Officer as well as the Regional Medical Leader (VP Medicine) will need to be regularly briefed regarding the status of additional clinical and operational PPE demands and any significant events that may occur during the pandemic period of care.

⁶ WHO Rational Use of Personal Protective Equipment for Coronavirus Disease (COVID-19): Interim Guidance. March 19, 2020. <u>https://apps.who.int/iris/bitstream/handle/10665/331498/WHO-2019-nCoV-IPCPPE_use-2020.2-eng.pdf</u>

Analysis: There is critical importance for clinically relevant data and information analysis during a pandemic. The provincial, national, and international health research systems will need good alignment and coordination of their practices and activities of the pandemic research.

12. Appendices

Appendix A: Key Informants

Name	Title/HA
Linda Lupini	Executive Vice President, Commercial Services, PHSA
Melinda Mui	Interim VP PHSA, also Corporate director, Supply Chain, HSSBC
Darren Kopetsky	Corporate Director, Risk Management, PHSA
Dave Keen	Executive Director, Workplace Health, FHA
Irene Sheppard	Executive Director Residential & Assisted Living Contract Services, FHA
Jo-Ann Tait	Program director for Elder Care and Palliative Services, PHC
Kenneth Tekano	General Physician, VCH
Titus Wong	Medical Lead, Infection Control, VCH
Akber Mithani	FHA
Andrew Larder	FHA
Joanna Harrison	IHA
Mona Hazel	IHA
Alison Orr	FHA
Karyn Morash	IHA
Douglas Smith	VIHA
Letwin Shallen	IHA
Neil Mclean	FHA
William Cunningham	VIHA
Quinn Danyluk	FHA
Akber Mithani	FHA
Michael Murray	CPSBC
Mark Blandford	VIHA
Margaret Manville	VIHA
Aaron Bond	NHA
Shallen Letwin	IHA
Timothy Orr	VIHA
Leah MacDonald	VIHA
Tim Rowe	NHA
Andrew Larder	FHA
Eric Chi	FHA
Dick Raymond	NHA
Michael Schwandt	VCH
Deborah Harver	VIHA

Caitlin Davies	VIHA
David Patrick	VCH
John Lavery	HEMBC
Janice Butler	PHSA
Ken Dueck	Gateway Health

BC's H1N1 Pandemic Influenza Response Plan – An Ethical Framework for Decision-Making: Supporting British Columbia's Pandemic Influenza Planning and Response was revised and updated to be used during the global COVID-19 pandemic by members of the Surge Capacity Planning Working Group, developed by the Ministry of Health as well as other key stakeholders from across the province. Experts who provided feedback for this March 2020 COVID-19 update include:

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Appendix B: British Columbia COVID-19 Ethical Decision-Making Framework

COVID-19 Ethical Decision-Making Framework Interim Guidance

Provincial COVID-19 Response March 20, 2020

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Introduction

During a public health event, unknown and sometimes unpredictable variables may influence unfolding events throughout the duration of the episode. The BC health system's stated aim is to stay within the principles and values of the *COVID-19 Ethical Decision-Making Framework Interim Guidance* to foster transparent leadership, sound ethical decision making (policy, direction, and resource allocation), and partnership across stakeholders geared towards providing consistent public information.

Public health ethics involves a systematic process to clarify, prioritize, and justify possible courses of public health action based on ethical principles, values and beliefs of stakeholders, and scientific and other information. While clinical ethics focuses on the health and interests of the individual patient, public health ethics considers the health and interests of a population, informing public health actions and decisions.

Similarly, public health ethics, especially with respect to pandemics or outbreaks, has a different focus than traditional clinical ethics. The two central dilemmas in public health ethics are:

1) to what degree is it justifiable for a state to intervene on privacy and personal liberties of individuals in the name of the greater good of the broader population?

2) if there are inadequate resources to adequately respond to each individual patient's medical needs, how should resource allocation decisions be made to best serve the greater population?

A disease outbreak, such as COVID-19, can lead to an extreme public health crisis where the health and safety of the population is at risk. In recognition of this risk, it is crucial to weigh the respecting of individual rights and freedoms while attempting to satisfy the needs of and protecting the broader public.

The needs of the community may outweigh the needs of individuals in such crises; personal rights and freedoms must sometimes be constrained. Any infringements on personal rights and freedoms must be carefully considered, and the least restrictive or coercive means must be sought.

In a pandemic, there are resource constraints, such as anticipated in a COVID-19 outbreak, allocation responses will aim to maximize effective use of scarce resources, such as critical supplies (like Personal Protective Equipment), and human resources.

This ethical decision-making framework, and underlying principles and values provides an interim process to support health care organizations and teams to make these challenging decisions in a COVID-19 outbreak.

This framework aims to ensure ethically defensible decision-making to:

- 1. Serve as a transparent guide for ethical decision-making before, during, and after the pandemic
- 2. Encourage integration of shared values into health care practices, treatment and funding decisions
- 3. Contribute to improved health outcomes and service delivery, and maximize human and financial resources
- 4. Increase public awareness of and confidence in policy making decision processes
- 5. Increase public awareness and preparedness for a communicable disease pandemic

This framework does not provide detailed instructions for responding to ethical dilemmas on a caseby-case basis. Instead, it identifies the ethical principles and values that should guide ethical decisionmaking, strategies, and processes. Health authorities are encouraged to use this provincial framework, and consult with their local Ethics Service, to inform communicable disease pandemic planning and response activities, as well as any applicable health authority framework.

Ethical Principles & Values

In developing these ethical guidelines for decision making, these principles and values are drawn from previous pandemic ethical frameworks and literature in BC and Canada. COVID-19 is a potential public health crisis, and therefore broader community-focused public health ethics form a critical component of the overall guidelines.

The ethical principles and values presented below are not ranked because, as per the Ethical Decision Making Process below, they will need to be specified and prioritized in the context of the specific ethical issues they are used to address. In some circumstances, value-trade-offs will have to be made when it is not possible to uphold all values. In these situations, it will be important to justify these trade-offs and prioritizations.

The key ethical principles and values that underpin this framework are:

• **Respect:** To whatever extent possible, individual autonomy, individual liberties, and cultural safety must be respected. This means respect for privacy and confidentiality, and

an obligation on behalf of leaders and care providers to be truthful and honest to individuals affected.

- **The Harm Principle:** A society has a right to protect itself from harm, real or threatened. The government is justified in intervening and possibly impinging on the rights of individuals to protect the community from harm.
- **Fairness:** Everyone matters equally but not everyone may be treated the same. There are three competing forces in fair delivery of care and services that must be balanced. Persons ought to have equal access to health care resources (*equality*), however:
 - Those who most need and can derive the greatest benefit from resources ought to ought to be offered resources preferentially (*equity*), and
 - Resources ought to be distributed such that the maximum benefits to the greatest number will be achieved (utility, and *efficiency*) and
 - Resource allocation decisions must be made with *consistency* in application across populations and among individuals regardless of their human condition (e.g. race, age, disability, ethnicity, ability to pay, socioeconomic status, pre-existing health conditions, social worth, perceived obstacles to treatment, past use of resources).
- Least Coercive and Restrictive Means: Any infringements on personal rights and freedoms must be carefully considered, and the least restrictive or coercive means must be sought.
- Working Together: Cooperation is essential to this international threat between individual citizens, health regions, provinces, and nations.
- **Reciprocity:** If people are asked to take increased risks or face increased/disproportionate burdens during a pandemic influenza, they should be supported in doing so, and the risks and burdens should be minimized as far as possible.
- **Proportionality:** Measures implemented, especially restrictive ones, should be proportionate to and commensurate with the level of threat and risk.
- Flexibility: any plan must be iterative and adapted to new knowledge that arises.
- **Procedural Justice**: There will be accountability to a fair and transparent process throughout the planning and implementation of managing COVID-19.
 - Openness and transparency: Any planning, any policy, and any actions deriving from such policies, must be transparent and open to stakeholder input as well as available to public inspection. All plans and all decisions must be made with an appeal to reasons that are mutually agreed upon and work toward collaboratively derived goals.
 - Inclusiveness: This means that those making decisions should:
 - Involve people to the greatest extent possible in aspects of planning that affect them.
 - Decision makers should take into account all relevant views expressed.

- Work to make sure that particular groups are not excluded from becoming involved. Some people may find it harder to access communications or services than others, and decision-makers should consider how they can express their views and have a fair opportunity to get their needs for treatment or care met.
- Take into account any disproportionate impact of the decision on particular groups of people.
- *Accountability:* This means that those responsible for making decisions may have to justify the decisions that they do or do not make.
- *Reasonableness:* This means that decisions should be:
 - Rational
 - Not arbitrary or based on emotional reactivity
 - Based on appropriate evidence, available at the time
 - The result of an appropriate process, taking into account how quickly a decision has to be made and the circumstances in which a decision is made
 - Practical have a reasonable chance of being feasible to implement and to achieve their stated goals

Ethical Decision Making Process

The following is a simplified ethical decision making process:

- 1. Define the Issue
 - What is the issue or problem? This question begins the very important process of reaching consensus about what the issue actually is.
 - 2. Clarify the Facts as much as Possible
 - What are the established facts of the issue? (I.e. the. who, what, where, when, why, and how?)
 - What we do not know?
 - What are the relevant factors?
- 3. Identify Stakeholders and their Perspectives
 - Who is affected by this decision?
 - How does each stakeholder see this issue and what is motivating their perspective?
- 4. Identify and Analyze the Principles and Values

- What are the principles and values pertaining to this decision?
- Determine principle and value conflicts: What values are being affirmed? What values are being negated?
- Identify and prioritize the principles and values that will be upheld
- 5. Identify Alternative Courses of Action in Light of the Values
 - What are all of the options (including doing nothing)?
 - What are the pros and cons of each option (including intended and unintended consequences) as measured against the prioritized values?
- 6. Make a Decision
 - Which option best fulfills the principles and values identified?
 - Are there contingency plans in case the decision does not have the intended outcomes, or creates possible conflicts?
- 7. Implement the Decision
 - Who will implement the decision? How and when will the decision be communicated to all stakeholders?
 - What process and criteria for measuring will be used to evaluate the decision and outcome?
- 8. Review and Document the Decision
 - Who will be responsible for documenting, following-up and maintaining the decision?
 - How will the decision be effectively communicated to all relevant stakeholders?

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Appendix C: PPE Prioritization

Note: Diligent hand hygiene is essential and should occur before and after PPE is donned and doffed.

Critical Care Setting (ICU/CCU)	Personnel	Activity	Stage 1 Type of PPE or procedure	Stage 6 Type of PPE or procedure	Stage 5 Type of PPE or procedure	Stage 4 Type of PPE or procedure
Patient room	Health care workers (includes x- ray techs)	Providing direct care to patients	Medical mask Gown Gloves Eye protection (goggles or face shield)	Stay with assigned cohort of patients and extended use of same mask, eye protection and gown for repeated interactions with multiple patients. Gloves can be changed between each patient encounter. It is recommended that staff use dedicated footwear while at work, and shower immediately upon returning home after every shift. Medical mask Gown Gloves Eye protection (goggles or face shield)	Stay with assigned cohort of patients and extended use of same mask, eye protection and gown for repeated interactions with multiple patients. Gloves can be changed between each patient encounter. It is recommended that staff use dedicated footwear while at work, and shower immediately upon returning home after every shift. Medical mask Gown Gloves Eye protection (goggles or face shield)	Stay with assigned cohort of patients and extended use of same mask, eye protection and gown for repeated interactions with multiple patients. Gloves can be changed between each patient encounter. It is recommended that staff use dedicated footwear while at work, and shower immediately upon returning home after every shift. Medical mask Gown Gloves Eye protection (goggles or face shield)
		Aerosol- generating procedures performed on COVID-19 patients	Respirator N95, or equivalent, or reusable respirator if available Gown Gloves Eye protection Apron	Stay with assigned cohort of patients and extended use of same respirator, gown and eye protection for repeated interactions with multiple patients. Gloves can be changed	Stay with assigned cohort of patients and extended use of same respirator, gown and eye protection for repeated interactions with multiple patients. Gloves can be changed	Stay with assigned cohort of patients and extended use of same respirator, gown and eye protection for repeated interactions with multiple patients. Gloves can be changed

			between each patient	between each patient	between each patient
			encounter.	encounter.	encounter.
			It is recommended that	It is recommended that	It is recommended that
			staff use dedicated	staff use dedicated	staff use dedicated
			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Respirator N95, or	Respirator N95, or	Respirator N95, or
			equivalent, or reusable	equivalent, or reusable	equivalent, or reusable
			respirator if available	respirator if available	respirator if available
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection	Eye protection	Eye protection
			Apron	Apron	Apron
Cleaners	Entering the	Medical mask	Limit cleaning of patient	Limit cleaning of patient	Limit cleaning of patient
	room of	Gown	rooms while COVID-19	rooms while COVID-19	rooms while COVID-19
	COVID-19	Heavy duty gloves	patient or cohort remains	patient or cohort remains	patient or cohort remains
	patients	Eye protection (if risk of	in place – reduce cleaning	in place – reduce cleaning	in place – reduce cleaning
		splash from organic	to times when patients are	to times when patients are	to times when patients are
		material or chemicals)	not present in rooms. Limit	not present in rooms. Limit	not present in rooms. Limit
		Boots or closed work shoes	movement of patients to	movement of patients to	movement of patients to
			reduce transmission.	reduce transmission.	reduce transmission.
			Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
			cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
			It is recommended that	It is recommended that	It is recommended that
			staff use dedicated	staff use dedicated	staff use dedicated
			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Medical mask	Medical mask	Medical mask
			Gown	Gown	Gown

				Heavy duty gloves	Heavy duty gloves	Heavy duty gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
Laboratory	Lab	Manipulation	Medical mask	Nurses do draws directly	Nurses do draws directly	Nurses do draws directly
	technician	of samples	Gown	off arterial line – No lab	off arterial line – No lab	off arterial line – No lab
			Gloves	technicians should be	technicians should be	technicians should be
			Eye protection (if risk of	entering the Critical Care	entering the Critical Care	entering the Critical Care
			splash)	Setting (I.e., No PPE	Setting (I.e., No PPE	Setting (I.e., No PPE
				required)	required)	required)
Other areas of	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
patient transit	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
(e.g. wards,	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
corridors).	workers.	patients	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
			face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for
				pushing the stretcher -	pushing the stretcher -	pushing the stretcher -
				minimize number of people	minimize number of people	minimize number of people
				involved in transport	involved in transport	involved in transport
				wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
				situations where there is	situations where there is	situations where there is
				normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
				and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
				the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
				down to transport the	down to transport the	down to transport the
				patient).	patient).	patient).
				Extended use of same mask	Extended use of same mask	Extended use of same
				and eye protection for	and eye protection for	mask and eye protection
				repeated interactions with	repeated interactions with	for repeated interactions
				multiple patients. Gloves	multiple patients. Gloves	with multiple patients.

				can be changed between	can be changed between	Gloves can be changed
				each patient encounter.	each patient encounter.	between each patient
				Gowns are to be used as	Gowns are to be used as	encounter. Gowns are to
				per routine practices.	per routine practices.	be used as per routine
				It is recommended that	It is recommended that	practices.
				staff use dedicated	staff use dedicated	It is recommended that
				footwear while at work,	footwear while at work,	staff use dedicated
				and shower immediately	and shower immediately	footwear while at work,
				upon returning home after	upon returning home after	and shower immediately
				every shift.	every shift.	upon returning home after
				Medical mask	Medical mask	every shift.
				Gown	Gown	Medical mask
				Gloves	Gloves	Gown
				Eye protection (goggles or	Eye protection (goggles or	Gloves
				face shield)	face shield)	Eye protection (goggles or
						face shield)
Administrative	All staff,	Administrativ	Where there is no patient	Where there is no patient	Where there is no patient	Where there is no patient
areas	including	e tasks that	or public contact, PPE is	or public contact, PPE is	or public contact, PPE is	or public contact, PPE is
	health care	do not	not needed. Use social	not needed. Use social	not needed. Use social	not needed. Use social
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

Emergency	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
Settings			Type of PPE or procedure			
Patient room	Health care	Providing	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	workers	direct care to	Gown	of patients and extended	of patients and extended	of patients and extended
		patients	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
			Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
			face shield)	repeated interactions with	repeated interactions with	repeated interactions with
				multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
				can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Aerosol-	Respirator N95, or	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		generating	equivalent, or reusable	of patients and extended	of patients and extended	of patients and extended
		procedures	respirator if available	use of same respirator,	use of same respirator,	use of same respirator,
		performed	Gown	gown and eye protection	gown and eye protection	gown and eye protection
		on COVID-19	Gloves	for repeated interactions	for repeated interactions	for repeated interactions
		patients	Eye protection	with multiple patients.	with multiple patients.	with multiple patients.
			Apron	Gloves can be changed	Gloves can be changed	Gloves can be changed
				between each patient	between each patient	between each patient
				encounter.	encounter.	encounter.

Note: Diligent hand hygiene is essential and should occur before and after PPE is donned and doffed.

			It is recommended that	It is recommended that	It is recommended that
			staff use dedicated	staff use dedicated	staff use dedicated
			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Respirator N95, or	Respirator N95, or	Respirator N95, or
			equivalent, or reusable	equivalent, or reusable	equivalent, or reusable
			respirator if available	respirator if available	respirator if available
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection	Eye protection	Eye protection
			Apron	Apron	Apron
Cleaners	Entering the	Medical mask	Limit cleaning of patient	Limit cleaning of patient	Limit cleaning of patient
	room of	Gown	rooms while COVID-19	rooms while COVID-19	rooms while COVID-19
	COVID-19	Heavy duty gloves	patient or cohort remains	patient or cohort remains	patient or cohort remains
	patients	Eye protection (if risk of	in place – reduce cleaning	in place – reduce cleaning	in place – reduce cleaning
		splash from organic	to times when patients are	to times when patients are	to times when patients are
		material or chemicals)	not present in rooms. Limit	not present in rooms. Limit	not present in rooms. Limit
		Boots or closed work shoes	movement of patients to	movement of patients to	movement of patients to
			reduce transmission.	reduce transmission.	reduce transmission.
			Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
			cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
			It is recommended that	It is recommended that	It is recommended that
			staff use dedicated	staff use dedicated	staff use dedicated
			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Medical mask	Medical mask	Medical mask
			Gown	Gown	Gown
			Heavy duty gloves	Heavy duty gloves	Heavy duty gloves

				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
	Visitors	Entering the	Medical mask	Essential visitors only, no	Essential visitors only, no	Essential visitors only, no
		room of a	Gown	PPE provided to visitors -	PPE provided to visitors -	PPE provided to visitors -
		COVID-19	Gloves	ensure visitors are	ensure visitors are	ensure visitors are
		patient		informed of risk.	informed of risk.	informed of risk.
Other areas	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
of patient	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
transit (e.g.	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
wards,	workers.	any patient	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
corridors).			face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for
				pushing the stretcher -	pushing the stretcher -	pushing the stretcher -
				minimize number of people	minimize number of people	minimize number of people
				involved in transport	involved in transport	involved in transport
				wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
				situations where there is	situations where there is	situations where there is
				normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
				and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
				the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
				down to transport the	down to transport the	down to transport the
				patient).	patient).	patient).
				Extended use of same	Extended use of same	Extended use of same
				mask, gown and eye	mask, gown and eye	mask, gown and eye
				protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter.	patient encounter.	patient encounter

				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	, upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
Triage	Health care	Preliminary	Maintain spatial distance	Extended use of PPE. Video	Extended use of PPE. Video	Extended use of PPE. Video
Indge	workers	screening	of at least 2 metres.	triage at intake wherever	triage at intake wherever	triage at intake wherever
	Workers	not involving		possible. Otherwise,	possible. Otherwise,	possible. Otherwise,
		direct		plexiglass or another	plexiglass or another	plexiglass or another
		contact		physical distancing or non-	physical distancing or non-	physical distancing or non-
	Patients with	Any	Maintain spatial distance	PPE barrier precaution	PPE barrier precaution	PPE barrier precaution
	respiratory		of at least 2 metres.	(e.g., walkie talkie). Train	(e.g., walkie talkie). Train	(e.g., walkie talkie). Train
	symptoms		Provide medical mask	triage nurse to do	triage nurse to do	triage nurse to do
	symptoms		immediately	registration portion of	registration portion of	registration portion of
	Patients	A 1914	Maintain spatial distance	intake to minimize number	intake to minimize number	intake to minimize number
	without	Any	of at least 2 metres.	of people at point of	of people at point of	of people at point of
			of at least 2 metres.	contact. If barrier is not	contact. If barrier is not	contact. If barrier is not
	respiratory			possible have patient face	possible have patient face	possible have patient face
	symptoms			90° away from nurse.	90° away from nurse.	90° away from nurse.
				Gowns are to be used as	Gowns are to be used as	Gowns are to be used as
				per routine practices. It is recommended that	per routine practices. It is recommended that	per routine practices. It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
------------	------------	--------------	----------------------------	--------------------------------	--------------------------------	--------------------------------
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
Laboratory	Lab	Manipulation	Medical mask	If there is any possibility of	If there is any possibility of	If there is any possibility of
	technician	of samples	Gown	the primary care provider	the primary care provider	the primary care provider
			Gloves	drawing blood, they should	drawing blood, they should	drawing blood, they should
			Eye protection (if risk of	assume responsibility for	assume responsibility for	assume responsibility for
			splash)	drawing blood to minimize	drawing blood to minimize	drawing blood to minimize
				number of lab technicians	number of lab technicians	number of lab technicians
				entering the Care Setting.	entering the Care Setting.	entering the Care Setting.
				Otherwise, have dedicated	Otherwise, have dedicated	Otherwise, have dedicated
				lab technician(s) for	lab technician(s) for	lab technician(s) for
				department. In this case	department. In this case	department. In this case
				extended use of same	extended use of same	extended use of same
				mask, gown and eye	mask, gown and eye	mask, gown and eye
				protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter	patient encounter.	patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash)	splash)	splash)

Administrativ	All staff,	Administrativ	Where there is no patient			
e areas	including	e tasks that	or public contact, PPE is			
	health care	do not	not needed. Use social			
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

Surgical	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
Inpatient			Type of PPE or procedure			
Settings						
Patient room	Health care	Providing	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	workers	direct care to	Gloves	of patients and extended	of patients and extended	of patients and extended
		patients	Eye protection (goggles or	use of same mask and eye	use of same mask and eye	use of same mask and eye
			face shield)	protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter.	patient encounter.	patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Care of	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		patients with	Gown	of patients and extended	of patients and extended	of patients and extended
		respiratory	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
		symptoms or	Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
		patients who	face shield)	repeated interactions with	repeated interactions with	repeated interactions with
		are COVID-		multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
		19 positive		can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated

Note: Diligent hand hygiene is essential and should occur before and after PPE is donned and doffed.
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			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Medical mask	Medical mask	Medical mask
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
			face shield)	face shield)	face shield)
	Aerosol-	Respirator N95, or	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	generating	equivalent, or reusable	of patients and extended	of patients and extended	of patients and extended
	procedures	respirator if available	use of same respirator,	use of same respirator,	use of same respirator,
	performed	Gown	gown and eye protection	gown and eye protection	gown and eye protection
	on COVID-19	Gloves	for repeated interactions	for repeated interactions	for repeated interactions
	patients	Eye protection	with multiple patients.	with multiple patients.	with multiple patients.
		Apron	Gloves can be changed	Gloves can be changed	Gloves can be changed
			between each patient	between each patient	between each patient
			encounter.	encounter.	encounter.
			It is recommended that	It is recommended that	It is recommended that
			staff use dedicated	staff use dedicated	staff use dedicated
			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Respirator N95, or	Respirator N95, or	Respirator N95, or
			equivalent, or reusable	equivalent, or reusable	equivalent, or reusable
			respirator if available	respirator if available	respirator if available
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection	Eye protection	Eye protection
			Apron	Apron	Apron
Clea	aners Entering the	Medical mask	Limit cleaning of patient	Limit cleaning of patient	Limit cleaning of patient
	room of	Gown	rooms while COVID-19	rooms while COVID-19	rooms while COVID-19

		COVID-19	Heavy duty gloves	patient or cohort remains	patient or cohort remains	patient or cohort remains
		patients	Eye protection (if risk of	in place – reduce cleaning	in place – reduce cleaning	in place – reduce cleaning
			splash from organic	to times when patients are	to times when patients are	to times when patients are
			material or chemicals)	not present in rooms. Limit	not present in rooms. Limit	not present in rooms. Limit
			Boots or closed work shoes	movement of patients to	movement of patients to	movement of patients to
				reduce transmission.	reduce transmission.	reduce transmission.
				Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
				cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Heavy duty gloves	Heavy duty gloves	Heavy duty gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
	Visitors	Entering the	Medical mask	Essential visitors only, no	Essential visitors only, no	Essential visitors only, no
		room of a	Gown	PPE provided to visitors -	PPE provided to visitors -	PPE provided to visitors -
		COVID-19	Gloves	ensure visitors are	ensure visitors are	ensure visitors are
		patient		informed of risk.	informed of risk.	informed of risk.
Other areas	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
of patient	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
transit (e.g.	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
wards,	workers.	any patient	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
corridors).			face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for

pushing the stretcher -	pushing the stretcher -	pushing the stretcher -
minimize number of people	minimize number of people	minimize number of people
involved in transport	involved in transport	involved in transport
wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
situations where there is	situations where there is	situations where there is
normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
down to transport the	down to transport the	down to transport the
patient).	patient).	patient).
Extended use of same mask	Extended use of same mask	Extended use of same
and eye protection for	and eye protection for	mask and eye protection
repeated interactions with	repeated interactions with	for repeated interactions
multiple patients. Gloves	multiple patients. Gloves	with multiple patients.
can be changed between	can be changed between	Gloves can be changed
each patient encounter.	each patient encounter.	between each patient
Gowns are to be used as	Gowns are to be used as	encounter. Gowns are to
per routine practices.	per routine practices.	be used as per routine
It is recommended that	It is recommended that	practices.
staff use dedicated	staff use dedicated	It is recommended that
footwear while at work,	footwear while at work,	staff use dedicated
and shower immediately	and shower immediately	footwear while at work,
upon returning home after	upon returning home after	and shower immediately
every shift.	every shift.	upon returning home after
Medical mask	Medical mask	every shift.
Gown	Gown	Medical mask
Gloves	Gloves	Gown
Eye protection (goggles or	Eye protection (goggles or	Gloves
face shield)	face shield)	Eye protection (goggles or
		face shield)

Pre-op	Health care	Preliminary	Maintain spatial distance	Eliminate as many people	Eliminate as many people	Eliminate as many people
	workers	screening	of at least 2 metres.	from OR operations as	from OR operations as	from OR operations as
		not involving	No PPE required	possible (Have single RN do	possible (Have single RN do	possible (Have single RN do
		direct		pre-op, checking vitals,	pre-op, checking vitals,	pre-op, checking vitals,
		contact		transport, post-op)	transport, post-op)	transport, post-op)
Laboratory	Lab	Manipulation	Medical mask	If there is any possibility of	If there is any possibility of	If there is any possibility of
	technician	of samples	Gown	the primary care provider	the primary care provider	the primary care provider
			Gloves	drawing blood, they should	drawing blood, they should	drawing blood, they should
			Eye protection (if risk of	assume responsibility for	assume responsibility for	assume responsibility for
			splash)	drawing blood to minimize	drawing blood to minimize	drawing blood to minimize
				number of lab technicians	number of lab technicians	number of lab technicians
				entering the Care Setting.	entering the Care Setting.	entering the Care Setting.
				Otherwise, have dedicated	Otherwise, have dedicated	Otherwise, have dedicated
				lab technician(s) for	lab technician(s) for	lab technician(s) for
				department. In this case	department. In this case	department. In this case
				extended use of same mask	extended use of same mask	extended use of same mask
				and eye protection for	and eye protection for	and eye protection for
				repeated interactions with	repeated interactions with	repeated interactions with
				multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
				can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				Gowns are to be used as	Gowns are to be used as	Gowns are to be used as
				per routine practices.	per routine practices.	per routine practices.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves

				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash)	splash)	splash)
Administrativ	All staff,	Administrativ	Where there is no patient	Where there is no patient	Where there is no patient	Where there is no patient
e areas	including	e tasks that	or public contact, PPE is	or public contact, PPE is	or public contact, PPE is	or public contact, PPE is
	health care	do not	not needed. Use social	not needed. Use social	not needed. Use social	not needed. Use social
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

Medicine	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
Settings			Type of PPE or procedure			
Patient room	Health care	Providing	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	workers	direct care to	Gloves	of patients and extended	of patients and extended	of patients and extended
		patients	Eye protection (goggles or	use of same mask and eye	use of same mask and eye	use of same mask and eye
			face shield)	protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter.	patient encounter.	patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Care of	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		patients with	Gown	of patients and extended	of patients and extended	of patients and extended
		respiratory	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
		symptoms or	Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
		patients who	face shield)	repeated interactions with	repeated interactions with	repeated interactions with
		are COVID-		multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
		19 positive		can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,

Note: Diligent hand hygiene is essential and should occur before and after PPE is donned and doffed.
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			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Medical mask	Medical mask	Medical mask
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
			face shield)	face shield)	face shield)
	Aerosol-	Respirator N95, or	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	generating	equivalent, or reusable	of patients and extended	of patients and extended	of patients and extended
	procedures	respirator if available	use of same respirator,	use of same respirator,	use of same respirator,
	performed	Gown	gown and eye protection	gown and eye protection	gown and eye protection
	on COVID-19	Gloves	for repeated interactions	for repeated interactions	for repeated interactions
	patients	Eye protection	with multiple patients.	with multiple patients.	with multiple patients.
		Apron	Gloves can be changed	Gloves can be changed	Gloves can be changed
			between each patient	between each patient	between each patient
			encounter.	encounter.	encounter.
			It is recommended that	It is recommended that	It is recommended that
			staff use dedicated	staff use dedicated	staff use dedicated
			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Respirator N95, or	Respirator N95, or	Respirator N95, or
			equivalent, or reusable	equivalent, or reusable	equivalent, or reusable
			respirator if available	respirator if available	respirator if available
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection	Eye protection	Eye protection
			Apron	Apron	Apron
Cleaners	Entering the	Medical mask	Limit cleaning of patient	Limit cleaning of patient	Limit cleaning of patient
	room of	Gown	rooms while COVID-19	rooms while COVID-19	rooms while COVID-19
		Heavy duty gloves	patient or cohort remains	patient or cohort remains	patient or cohort remains

		COVID-19	Eye protection (if risk of	in place – reduce cleaning	in place – reduce cleaning	in place – reduce cleaning
		patients	splash from organic	to times when patients are	to times when patients are	to times when patients are
			material or chemicals)	not present in rooms. Limit	not present in rooms. Limit	not present in rooms. Limit
			Boots or closed work shoes	movement of patients to	movement of patients to	movement of patients to
				reduce transmission.	reduce transmission.	reduce transmission.
				Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
				cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Heavy duty gloves	Heavy duty gloves	Heavy duty gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
	Visitors ^b	Entering the	Medical mask	Essential visitors only, no	Essential visitors only, no	Essential visitors only, no
		room of a	Gown	PPE provided to visitors -	PPE provided to visitors -	PPE provided to visitors -
		COVID-19	Gloves	ensure visitors are	ensure visitors are	ensure visitors are
		patient		informed of risk.	informed of risk.	informed of risk.
Other areas	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
of patient	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
transit (e.g.	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
wards,	workers.	any patient	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
corridors).			face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for
				pushing the stretcher -	pushing the stretcher -	pushing the stretcher -

				minimize number of people	minimize number of people	minimize number of people
				involved in transport	involved in transport	involved in transport
				wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
				situations where there is	situations where there is	situations where there is
				normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
				and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
				the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
				down to transport the	down to transport the	down to transport the
				patient).	patient).	patient).
				Extended use of same mask	Extended use of same mask	Extended use of same
				and eye protection for	and eye protection for	mask and eye protection
				repeated interactions with	repeated interactions with	for repeated interactions
				multiple patients. Gloves	multiple patients. Gloves	with multiple patients.
				can be changed between	can be changed between	Gloves can be changed
				each patient encounter.	each patient encounter.	between each patient
				Gowns are to be used as	Gowns are to be used as	encounter. Gowns are to
				per routine practices.	per routine practices.	be used as per routine
				It is recommended that	It is recommended that	practices.
				staff use dedicated	staff use dedicated	It is recommended that
				footwear while at work,	footwear while at work,	staff use dedicated
				and shower immediately	and shower immediately	footwear while at work,
				upon returning home after	upon returning home after	and shower immediately
				every shift.	every shift.	upon returning home after
				Medical mask	Medical mask	every shift.
				Gown	Gown	Medical mask
				Gloves	Gloves	Gown
				Eye protection (goggles or	Eye protection (goggles or	Gloves
				face shield)	face shield)	Eye protection (goggles or
						face shield)
Laboratory	Lab	Manipulation	Medical mask	If there is any possibility of	If there is any possibility of	If there is any possibility of
	technician	of	Gown	the primary care provider	the primary care provider	the primary care provider
		respiratory	Gloves	drawing blood, they should	drawing blood, they should	drawing blood, they should
		samples		assume responsibility for	assume responsibility for	assume responsibility for

			Eye protection (if risk of	drawing blood to minimize	drawing blood to minimize	drawing blood to minimize
			splash)	number of lab technicians	number of lab technicians	number of lab technicians
				entering the Care Setting.	entering the Care Setting.	entering the Care Setting.
				Otherwise, have dedicated	Otherwise, have dedicated	Otherwise, have dedicated
				lab technician(s) for	lab technician(s) for	lab technician(s) for
				department. In this case	department. In this case	department. In this case
				extended use of same mask	extended use of same mask	extended use of same mask
				and eye protection for	and eye protection for	and eye protection for
				repeated interactions with	repeated interactions with	repeated interactions with
				multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
				can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				Gowns are to be used as	Gowns are to be used as	Gowns are to be used as
				per routine practices.	per routine practices.	per routine practices.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash)	splash)	splash)
Administrativ	All staff,	Administrativ	Where there is no patient			
e areas	including	e tasks that	or public contact, PPE is			
	health care	do not	not needed. Use social			
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

Palliative	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
Settings			Type of PPE or procedure			
Patient room	Health care	Providing	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	workers	direct care to	Gloves	of patients and extended	of patients and extended	of patients and extended
		patients	Eye protection (goggles or	use of same mask and eye	use of same mask and eye	use of same mask and eye
			face shield)	protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter.	patient encounter.	patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Care of	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		patients with	Gown	of patients and extended	of patients and extended	of patients and extended
		respiratory	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
		symptoms or	Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
		patients who	face shield)	repeated interactions with	repeated interactions with	repeated interactions with
		are COVID-		multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
		19 positive		can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,

Note: Diligent hand hygiene is essential and should occur before and after PPE is donned and doffe	ed.
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				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
Cle	leaners	Entering the	Medical mask	Limit cleaning of patient	Limit cleaning of patient	Limit cleaning of patient
		room of	Gown	rooms while COVID-19	rooms while COVID-19	rooms while COVID-19
		COVID-19	Heavy duty gloves	patient or cohort remains	patient or cohort remains	patient or cohort remains
		patients	Eye protection (if risk of	in place – reduce cleaning	in place – reduce cleaning	in place – reduce cleaning
			splash from organic	to times when patients are	to times when patients are	to times when patients are
			material or chemicals)	not present in rooms. Limit	not present in rooms. Limit	not present in rooms. Limit
			Boots or closed work shoes	movement of patients to	movement of patients to	movement of patients to
				reduce transmission.	reduce transmission.	reduce transmission.
				Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
				cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Heavy duty gloves	Heavy duty gloves	Heavy duty gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
Vi	isitors ^b	Entering the	Medical mask	Essential visitors only, no	Essential visitors only, no	Essential visitors only, no
		room of a	Gown	PPE provided to visitors -	PPE provided to visitors -	PPE provided to visitors -

		COVID-19	Gloves	ensure visitors are	ensure visitors are	ensure visitors are
		patient		informed of risk.	informed of risk.	informed of risk.
Other areas	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
of patient	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
transit (e.g.	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
wards,	workers.	any patient	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
corridors).			face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for
				pushing the stretcher -	pushing the stretcher -	pushing the stretcher -
				minimize number of people	minimize number of people	minimize number of people
				involved in transport	involved in transport	involved in transport
				wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
				situations where there is	situations where there is	situations where there is
				normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
				and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
				the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
				down to transport the	down to transport the	down to transport the
				patient).	patient).	patient).
				Extended use of same mask	Extended use of same mask	Extended use of same
				and eye protection for	and eye protection for	mask and eye protection
				repeated interactions with	repeated interactions with	for repeated interactions
				multiple patients. Gloves	multiple patients. Gloves	with multiple patients.
				can be changed between	can be changed between	Gloves can be changed
				each patient encounter.	each patient encounter.	between each patient
				Gowns are to be used as	Gowns are to be used as	encounter. Gowns are to
				per routine practices.	per routine practices.	be used as per routine
				It is recommended that	It is recommended that	practices.
				staff use dedicated	staff use dedicated	It is recommended that
				footwear while at work,	footwear while at work,	staff use dedicated
				and shower immediately	and shower immediately	footwear while at work,
						and shower immediately

				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
Laboratory	Lab	Manipulation	Medical mask	If there is any possibility of	If there is any possibility of	If there is any possibility of
	technician	of	Gown	the primary care provider	the primary care provider	the primary care provider
		respiratory	Gloves	drawing blood, they should	drawing blood, they should	drawing blood, they should
		samples	Eye protection (if risk of	assume responsibility for	assume responsibility for	assume responsibility for
			splash)	drawing blood to minimize	drawing blood to minimize	drawing blood to minimize
				number of lab technicians	number of lab technicians	number of lab technicians
				entering the Care Setting.	entering the Care Setting.	entering the Care Setting.
				Otherwise, have dedicated	Otherwise, have dedicated	Otherwise, have dedicated
				lab technician(s) for	lab technician(s) for	lab technician(s) for
				department. In this case	department. In this case	department. In this case
				extended use of same mask	extended use of same mask	extended use of same mask
				and eye protection for	and eye protection for	and eye protection for
				repeated interactions with	repeated interactions with	repeated interactions with
				multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
				can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				Gowns are to be used as	Gowns are to be used as	Gowns are to be used as
				per routine practices.	per routine practices.	per routine practices.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown

				Gloves	Gloves	Gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash)	splash)	splash)
Administrativ	All staff,	Administrativ	Where there is no patient	Where there is no patient	Where there is no patient	Where there is no patient
e areas	including	e tasks that	or public contact, PPE is	or public contact, PPE is	or public contact, PPE is	or public contact, PPE is
	health care	do not	not needed. Use social	not needed. Use social	not needed. Use social	not needed. Use social
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

Oncology	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
Settings			Type of PPE or procedure			
Patient room	Health care	Providing	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	workers	direct care to	Gloves	of patients and extended	of patients and extended	of patients and extended
		patients	Eye protection (goggles or	use of same mask and eye	use of same mask and eye	use of same mask and eye
			face shield)	protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter.	patient encounter.	patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Care of	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		patients with	Gown	of patients and extended	of patients and extended	of patients and extended
		respiratory	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
		symptoms or	Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
		patients who	face shield)	repeated interactions with	repeated interactions with	repeated interactions with
		are COVID-		multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
		19 positive		can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,

Note: Diligent hand hygiene is essential and should occur before and after PPE is donned and	l doffed.
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			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Medical mask	Medical mask	Medical mask
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
			face shield)	face shield)	face shield)
	Aerosol-	Respirator N95, or	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	generating	equivalent, or reusable	of patients and extended	of patients and extended	of patients and extended
	procedures	respirator if available	use of same respirator,	use of same respirator,	use of same respirator,
	performed	Gown	gown and eye protection	gown and eye protection	gown and eye protection
	on COVID-19	Gloves	for repeated interactions	for repeated interactions	for repeated interactions
	patients	Eye protection	with multiple patients.	with multiple patients.	with multiple patients.
		Apron	Gloves can be changed	Gloves can be changed	Gloves can be changed
			between each patient	between each patient	between each patient
			encounter.	encounter.	encounter.
			It is recommended that	It is recommended that	It is recommended that
			staff use dedicated	staff use dedicated	staff use dedicated
			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Respirator N95, or	Respirator N95, or	Respirator N95, or
			equivalent, or reusable	equivalent, or reusable	equivalent, or reusable
			respirator if available	respirator if available	respirator if available
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection	Eye protection	Eye protection
			Apron	Apron	Apron
Cleaners	Entering the	Medical mask	Limit cleaning of patient	Limit cleaning of patient	Limit cleaning of patient
	room of	Gown	rooms while COVID-19	rooms while COVID-19	rooms while COVID-19
 		Heavy duty gloves	patient or cohort remains	patient or cohort remains	patient or cohort remains

		COVID-19	Eye protection (if risk of	in place – reduce cleaning	in place – reduce cleaning	in place – reduce cleaning
		patients	splash from organic	to times when patients are	to times when patients are	to times when patients are
			material or chemicals)	not present in rooms. Limit	not present in rooms. Limit	not present in rooms. Limit
			Boots or closed work shoes	movement of patients to	movement of patients to	movement of patients to
				reduce transmission.	reduce transmission.	reduce transmission.
				Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
				cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Heavy duty gloves	Heavy duty gloves	Heavy duty gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
	Visitors ^b	Entering the	Medical mask	Essential visitors only, no	Essential visitors only, no	Essential visitors only, no
		room of a	Gown	PPE provided to visitors -	PPE provided to visitors -	PPE provided to visitors -
		COVID-19	Gloves	ensure visitors are	ensure visitors are	ensure visitors are
		patient		informed of risk.	informed of risk.	informed of risk.
Other areas	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
of patient	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
transit (e.g.	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
wards,	workers.	any patient	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
corridors).			face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for
				pushing the stretcher -	pushing the stretcher -	pushing the stretcher -

				minimize number of people	minimize number of people	minimize number of people
				involved in transport	involved in transport	involved in transport
				wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
				situations where there is	situations where there is	situations where there is
				normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
				and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
				the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
				down to transport the	down to transport the	down to transport the
				patient).	patient).	patient).
				Extended use of same mask	Extended use of same mask	Extended use of same
				and eye protection for	and eye protection for	mask and eye protection
				repeated interactions with	repeated interactions with	for repeated interactions
				multiple patients. Gloves	multiple patients. Gloves	with multiple patients.
				can be changed between	can be changed between	Gloves can be changed
				each patient encounter.	each patient encounter.	between each patient
				Gowns are to be used as	Gowns are to be used as	encounter. Gowns are to
				per routine practices.	per routine practices.	be used as per routine
				It is recommended that	It is recommended that	practices.
				staff use dedicated	staff use dedicated	It is recommended that
				footwear while at work,	footwear while at work,	staff use dedicated
				and shower immediately	and shower immediately	footwear while at work,
				upon returning home after	upon returning home after	and shower immediately
				every shift.	every shift.	upon returning home after
				Medical mask	Medical mask	every shift.
				Gown	Gown	Medical mask
				Gloves	Gloves	Gown
				Eye protection (goggles or	Eye protection (goggles or	Gloves
				face shield)	face shield)	Eye protection (goggles or
						face shield)
Laboratory	Lab	Manipulation	Medical mask	If there is any possibility of	If there is any possibility of	If there is any possibility of
	technician	of	Gown	the primary care provider	the primary care provider	the primary care provider
		respiratory	Gloves	drawing blood, they should	drawing blood, they should	drawing blood, they should
		samples		assume responsibility for	assume responsibility for	assume responsibility for

			Eye protection (if risk of	drawing blood to minimize	drawing blood to minimize	drawing blood to minimize
			splash)	number of lab technicians	number of lab technicians	number of lab technicians
				entering the Care Setting.	entering the Care Setting.	entering the Care Setting.
				Otherwise, have dedicated	Otherwise, have dedicated	Otherwise, have dedicated
				lab technician(s) for	lab technician(s) for	lab technician(s) for
				department. In this case	department. In this case	department. In this case
				extended use of same mask	extended use of same mask	extended use of same mask
				and eye protection for	and eye protection for	and eye protection for
				repeated interactions with	repeated interactions with	repeated interactions with
				multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
				can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				Gowns are to be used as	Gowns are to be used as	Gowns are to be used as
				per routine practices.	per routine practices.	per routine practices.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash)	splash)	splash)
Administrativ	All staff,	Administrativ	Where there is no patient			
e areas	including	e tasks that	or public contact, PPE is			
	health care	do not	not needed. Use social			
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

Maternity	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
(LD & PP)			Type of PPE or procedure			
Settings						
Patient room	Health care	Providing	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	workers	direct care to	Gloves	of patients and extended	of patients and extended	of patients and extended
		patients	Eye protection (goggles or	use of same mask and eye	use of same mask and eye	use of same mask and eye
			face shield)	protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter.	patient encounter.	patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Care of	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		patients with	Gown	of patients and extended	of patients and extended	of patients and extended
		respiratory	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
		symptoms or	Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
		patients who	face shield)	repeated interactions with	repeated interactions with	repeated interactions with
		are COVID-		multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
		19 positive		can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated

Note: Diligent hand hygiene is essential and should occur b	pefore and after PPE is donned and doffed.
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				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Aerosol-	Respirator N95, or	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		generating	equivalent, or reusable	of patients and extended	of patients and extended	of patients and extended
		procedures	respirator if available	use of same respirator,	use of same respirator,	use of same respirator,
		performed	Gown	gown and eye protection	gown and eye protection	gown and eye protection
		on COVID-19	Gloves	for repeated interactions	for repeated interactions	for repeated interactions
		patients	Eye protection	with multiple patients.	with multiple patients.	with multiple patients.
			Apron	Gloves can be changed	Gloves can be changed	Gloves can be changed
				between each patient	between each patient	between each patient
				encounter.	encounter.	encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Respirator N95, or	Respirator N95, or	Respirator N95, or
				equivalent, or reusable	equivalent, or reusable	equivalent, or reusable
				respirator if available	respirator if available	respirator if available
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection	Eye protection	Eye protection
				Apron	Apron	Apron
Cl	leaners	Entering the	Medical mask	Limit cleaning of patient	Limit cleaning of patient	Limit cleaning of patient
		room of	Gown	rooms while COVID-19	rooms while COVID-19	rooms while COVID-19

		COVID-19	Heavy duty gloves	patient or cohort remains	patient or cohort remains	patient or cohort remains
		patients	Eye protection (if risk of	in place – reduce cleaning	in place – reduce cleaning	in place – reduce cleaning
			splash from organic	to times when patients are	to times when patients are	to times when patients are
			material or chemicals)	not present in rooms. Limit	not present in rooms. Limit	not present in rooms. Limit
			Boots or closed work shoes	movement of patients to	movement of patients to	movement of patients to
				reduce transmission.	reduce transmission.	reduce transmission.
				Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
				cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Heavy duty gloves	Heavy duty gloves	Heavy duty gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
	Visitors ^b	Entering the	Medical mask	Essential visitors only, no	Essential visitors only, no	Essential visitors only, no
		room of a	Gown	PPE provided to visitors -	PPE provided to visitors -	PPE provided to visitors -
		COVID-19	Gloves	ensure visitors are	ensure visitors are	ensure visitors are
		patient		informed of risk.	informed of risk.	informed of risk.
Other areas	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
of patient	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
transit (e.g.	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
wards,	workers.	any patient	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
corridors).			face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for

				pushing the stretcher -	pushing the stretcher -	pushing the stretcher -
				minimize number of people	minimize number of people	minimize number of people
				involved in transport	involved in transport	involved in transport
				wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
				situations where there is	situations where there is	situations where there is
				normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
				and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
				the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
				down to transport the	down to transport the	down to transport the
				patient).	patient).	patient).
				Extended use of same mask	Extended use of same mask	Extended use of same
				and eye protection for	and eye protection for	mask and eye protection
				repeated interactions with	repeated interactions with	for repeated interactions
				multiple patients. Gloves	multiple patients. Gloves	with multiple patients.
				can be changed between	can be changed between	Gloves can be changed
				each patient encounter.	each patient encounter.	between each patient
				Gowns are to be used as	Gowns are to be used as	encounter. Gowns are to
				per routine practices.	per routine practices.	be used as per routine
				It is recommended that	It is recommended that	practices.
				staff use dedicated	staff use dedicated	It is recommended that
				footwear while at work,	footwear while at work,	staff use dedicated
				and shower immediately	and shower immediately	footwear while at work,
				upon returning home after	upon returning home after	and shower immediately
				every shift.	every shift.	upon returning home after
				Medical mask	Medical mask	every shift.
				Gown	Gown	Medical mask
				Gloves	Gloves	Gown
				Eye protection (goggles or	Eye protection (goggles or	Gloves
				face shield)	face shield)	Eye protection (goggles or
						face shield)
Laboratory	Lab	Manipulation	Medical mask	If there is any possibility of	If there is any possibility of	If there is any possibility of
	technician	of	Gown	the primary care provider	the primary care provider	the primary care provider
		respiratory	Gloves	drawing blood, they should	drawing blood, they should	drawing blood, they should

		samples	Eye protection (if risk of	assume responsibility for	assume responsibility for	assume responsibility for
			splash)	drawing blood to minimize	drawing blood to minimize	drawing blood to minimize
				number of lab technicians	number of lab technicians	number of lab technicians
				entering the Care Setting.	entering the Care Setting.	entering the Care Setting.
				Otherwise, have dedicated	Otherwise, have dedicated	Otherwise, have dedicated
				lab technician(s) for	lab technician(s) for	lab technician(s) for
				department. In this case	department. In this case	department. In this case
				extended use of same mask	extended use of same mask	extended use of same mask
				and eye protection for	and eye protection for	and eye protection for
				repeated interactions with	repeated interactions with	repeated interactions with
				multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
				can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				Gowns are to be used as	Gowns are to be used as	Gowns are to be used as
				per routine practices.	per routine practices.	per routine practices.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash)	splash)	splash)
Administrativ	All staff,	Administrativ	Where there is no patient			
e areas	including	e tasks that	or public contact, PPE is			
	health care	do not	not needed. Use social			
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

NICU	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
			Type of PPE or procedure			
Patient room	Health care	Providing	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	workers	direct care to	Gloves	of patients and extended	of patients and extended	of patients and extended
		patients	Eye protection (goggles or	use of same mask and eye	use of same mask and eye	use of same mask and eye
			face shield)	protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter.	patient encounter.	patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Care of	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		patients with	Gown	of patients and extended	of patients and extended	of patients and extended
		respiratory	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
		symptoms or	Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
		patients who	face shield)	repeated interactions with	repeated interactions with	repeated interactions with
		are COVID-		multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
		19 positive		can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,

Note: Diligent hand hygiene is essential and should occur before and after PPE is donned and doffed.
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			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Medical mask	Medical mask	Medical mask
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
			face shield)	face shield)	face shield)
	Aerosol-	Respirator N95, or	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	generating	equivalent, or reusable	of patients and extended	of patients and extended	of patients and extended
	procedures	respirator if available	use of same respirator,	use of same respirator,	use of same respirator,
	performed	Gown	gown and eye protection	gown and eye protection	gown and eye protection
	on COVID-19	Gloves	for repeated interactions	for repeated interactions	for repeated interactions
	patients	Eye protection	with multiple patients.	with multiple patients.	with multiple patients.
		Apron	Gloves can be changed	Gloves can be changed	Gloves can be changed
			between each patient	between each patient	between each patient
			encounter.	encounter.	encounter.
			It is recommended that	It is recommended that	It is recommended that
			staff use dedicated	staff use dedicated	staff use dedicated
			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Respirator N95, or	Respirator N95, or	Respirator N95, or
			equivalent, or reusable	equivalent, or reusable	equivalent, or reusable
			respirator if available	respirator if available	respirator if available
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection	Eye protection	Eye protection
			Apron	Apron	Apron
Cleaners	Entering the	Medical mask	Limit cleaning of patient	Limit cleaning of patient	Limit cleaning of patient
	room of	Gown	rooms while COVID-19	rooms while COVID-19	rooms while COVID-19
		Heavy duty gloves	patient or cohort remains	patient or cohort remains	patient or cohort remains

		COVID-19	Eye protection (if risk of	in place – reduce cleaning	in place – reduce cleaning	in place – reduce cleaning
		patients	splash from organic	to times when patients are	to times when patients are	to times when patients are
			material or chemicals)	not present in rooms. Limit	not present in rooms. Limit	not present in rooms. Limit
			Boots or closed work shoes	movement of patients to	movement of patients to	movement of patients to
				reduce transmission.	reduce transmission.	reduce transmission.
				Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
				cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Heavy duty gloves	Heavy duty gloves	Heavy duty gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
	Visitors ^b	Entering the	Medical mask	Essential visitors only, no	Essential visitors only, no	Essential visitors only, no
		room of a	Gown	PPE provided to visitors -	PPE provided to visitors -	PPE provided to visitors -
		COVID-19	Gloves	ensure visitors are	ensure visitors are	ensure visitors are
		patient		informed of risk.	informed of risk.	informed of risk.
Other areas	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
of patient	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
transit (e.g.	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
wards,	workers.	any patient	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
corridors).			face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for
				pushing the stretcher -	pushing the stretcher -	pushing the stretcher -

				minimize number of people	minimize number of people	minimize number of people
				involved in transport	involved in transport	involved in transport
				wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
				situations where there is	situations where there is	situations where there is
				normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
				and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
				the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
				down to transport the	down to transport the	down to transport the
				patient).	patient).	patient).
				Extended use of same mask	Extended use of same mask	Extended use of same
				and eye protection for	and eye protection for	mask and eye protection
				repeated interactions with	repeated interactions with	for repeated interactions
				multiple patients. Gloves	multiple patients. Gloves	with multiple patients.
				can be changed between	can be changed between	Gloves can be changed
				each patient encounter.	each patient encounter.	between each patient
				Gowns are to be used as	Gowns are to be used as	encounter. Gowns are to
				per routine practices.	per routine practices.	be used as per routine
				It is recommended that	It is recommended that	practices.
				staff use dedicated	staff use dedicated	It is recommended that
				footwear while at work,	footwear while at work,	staff use dedicated
				and shower immediately	and shower immediately	footwear while at work,
				upon returning home after	upon returning home after	and shower immediately
				every shift.	every shift.	upon returning home after
				Medical mask	Medical mask	every shift.
				Gown	Gown	Medical mask
				Gloves	Gloves	Gown
				Eye protection (goggles or	Eye protection (goggles or	Gloves
				face shield)	face shield)	Eye protection (goggles or
						face shield)
Laboratory	Lab	Manipulation	Medical mask	If there is any possibility of	If there is any possibility of	If there is any possibility of
	technician	of	Gown	the primary care provider	the primary care provider	the primary care provider
		respiratory	Gloves	drawing blood, they should	drawing blood, they should	drawing blood, they should
		samples		assume responsibility for	assume responsibility for	assume responsibility for

			Eye protection (if risk of	drawing blood to minimize	drawing blood to minimize	drawing blood to minimize
			splash)	number of lab technicians	number of lab technicians	number of lab technicians
				entering the Care Setting.	entering the Care Setting.	entering the Care Setting.
				Otherwise, have dedicated	Otherwise, have dedicated	Otherwise, have dedicated
				lab technician(s) for	lab technician(s) for	lab technician(s) for
				department. In this case	department. In this case	department. In this case
				extended use of same mask	extended use of same mask	extended use of same mask
				and eye protection for	and eye protection for	and eye protection for
				repeated interactions with	repeated interactions with	repeated interactions with
				multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
				can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				Gowns are to be used as	Gowns are to be used as	Gowns are to be used as
				per routine practices.	per routine practices.	per routine practices.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash)	splash)	splash)
Administrativ	All staff,	Administrativ	Where there is no patient			
e areas	including	e tasks that	or public contact, PPE is			
	health care	do not	not needed. Use social			
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

Pediatric	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
Settings			Type of PPE or procedure			
Patient room	Health care	Providing	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	workers	direct care to	Gloves	of patients and extended	of patients and extended	of patients and extended
		patients	Eye protection (goggles or	use of same mask and eye	use of same mask and eye	use of same mask and eye
			face shield)	protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter.	patient encounter.	patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Care of	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		patients with	Gown	of patients and extended	of patients and extended	of patients and extended
		respiratory	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
		symptoms or	Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
		patients who	face shield)	repeated interactions with	repeated interactions with	repeated interactions with
		are COVID-		multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
		19 positive		can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,

Note: Diligent hand hygiene is essential an	and should occur before and after PPE is donned and doffed.
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			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Medical mask	Medical mask	Medical mask
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
			face shield)	face shield)	face shield)
	Aerosol-	Respirator N95, or	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	generating	equivalent, or reusable	of patients and extended	of patients and extended	of patients and extended
	procedures	respirator if available	use of same respirator,	use of same respirator,	use of same respirator,
	performed	Gown	gown and eye protection	gown and eye protection	gown and eye protection
	on COVID-19	Gloves	for repeated interactions	for repeated interactions	for repeated interactions
	patients	Eye protection	with multiple patients.	with multiple patients.	with multiple patients.
		Apron	Gloves can be changed	Gloves can be changed	Gloves can be changed
			between each patient	between each patient	between each patient
			encounter.	encounter.	encounter.
			It is recommended that	It is recommended that	It is recommended that
			staff use dedicated	staff use dedicated	staff use dedicated
			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Respirator N95, or	Respirator N95, or	Respirator N95, or
			equivalent, or reusable	equivalent, or reusable	equivalent, or reusable
			respirator if available	respirator if available	respirator if available
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection	Eye protection	Eye protection
			Apron	Apron	Apron
Cleaners	Entering the	Medical mask	Limit cleaning of patient	Limit cleaning of patient	Limit cleaning of patient
	room of	Gown	rooms while COVID-19	rooms while COVID-19	rooms while COVID-19
		Heavy duty gloves	patient or cohort remains	patient or cohort remains	patient or cohort remains

		COVID-19	Eye protection (if risk of	in place – reduce cleaning	in place – reduce cleaning	in place – reduce cleaning
		patients	splash from organic	to times when patients are	to times when patients are	to times when patients are
			material or chemicals)	not present in rooms. Limit	not present in rooms. Limit	not present in rooms. Limit
			Boots or closed work shoes	movement of patients to	movement of patients to	movement of patients to
				reduce transmission.	reduce transmission.	reduce transmission.
				Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
				cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Heavy duty gloves	Heavy duty gloves	Heavy duty gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
	Visitors	Entering the	Medical mask	Essential visitors only, no	Essential visitors only, no	Essential visitors only, no
		room of a	Gown	PPE provided to visitors -	PPE provided to visitors -	PPE provided to visitors -
		COVID-19	Gloves	ensure visitors are	ensure visitors are	ensure visitors are
		patient		informed of risk.	informed of risk.	informed of risk.
Other areas	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
of patient	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
transit (e.g.	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
wards,	workers.	COVID-19	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
corridors).		patients	face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for
				pushing the stretcher -	pushing the stretcher -	pushing the stretcher -
				minimize number of people	minimize number of people	minimize number of people
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				involved in transport	involved in transport	involved in transport
				wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
				situations where there is	situations where there is	situations where there is
				normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
				and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
				the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
				down to transport the	down to transport the	down to transport the
				patient).	patient).	patient).
				Extended use of same mask	Extended use of same mask	Extended use of same
				and eye protection for	and eye protection for	mask and eye protection
				repeated interactions with	repeated interactions with	for repeated interactions
				multiple patients. Gloves	multiple patients. Gloves	with multiple patients.
				can be changed between	can be changed between	Gloves can be changed
				each patient encounter.	each patient encounter.	between each patient
				Gowns are to be used as	Gowns are to be used as	encounter. Gowns are to
				per routine practices.	per routine practices.	be used as per routine
				It is recommended that	It is recommended that	practices.
				staff use dedicated	staff use dedicated	It is recommended that
				footwear while at work,	footwear while at work,	staff use dedicated
				and shower immediately	and shower immediately	footwear while at work,
				upon returning home after	upon returning home after	and shower immediately
				every shift.	every shift.	upon returning home after
				Medical mask	Medical mask	every shift.
				Gown	Gown	Medical mask
				Gloves	Gloves	Gown
				Eye protection (goggles or	Eye protection (goggles or	Gloves
				face shield)	face shield)	Eye protection (goggles or
						face shield)
Laboratory	Lab	Manipulation	Medical mask	If there is any possibility of	If there is any possibility of	If there is any possibility of
	technician	of	Gown	the primary care provider	the primary care provider	the primary care provider
		respiratory	Gloves	drawing blood, they should	drawing blood, they should	drawing blood, they should
		samples		assume responsibility for	assume responsibility for	assume responsibility for

			Eye protection (if risk of	drawing blood to minimize	drawing blood to minimize	drawing blood to minimize
			splash)	number of lab technicians	number of lab technicians	number of lab technicians
				entering the Care Setting.	entering the Care Setting.	entering the Care Setting.
				Otherwise, have dedicated	Otherwise, have dedicated	Otherwise, have dedicated
				lab technician(s) for	lab technician(s) for	lab technician(s) for
				department. In this case	department. In this case	department. In this case
				extended use of same mask	extended use of same mask	extended use of same mask
				and eye protection for	and eye protection for	and eye protection for
				repeated interactions with	repeated interactions with	repeated interactions with
				multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
				can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				Gowns are to be used as	Gowns are to be used as	Gowns are to be used as
				per routine practices.	per routine practices.	per routine practices.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash)	splash)	splash)
Administrativ	All staff,	Administrativ	Where there is no patient			
e areas	including	e tasks that	or public contact, PPE is			
	health care	do not	not needed. Use social			
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

LTC &	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
Assisted			Type of PPE or procedure			
Living						
Patient room	Health care	Providing	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
	workers	direct care to	Gloves	of patients and extended	of patients and extended	of patients and extended
		patients	Eye protection (goggles or	use of same mask and eye	use of same mask and eye	use of same mask and eye
			face shield)	protection for repeated	protection for repeated	protection for repeated
				interactions with multiple	interactions with multiple	interactions with multiple
				patients. Gloves can be	patients. Gloves can be	patients. Gloves can be
				changed between each	changed between each	changed between each
				patient encounter.	patient encounter.	patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
		Care of	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
		patients with	Gown	of patients and extended	of patients and extended	of patients and extended
		respiratory	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
		symptoms or	Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
		patients who	face shield)	repeated interactions with	repeated interactions with	repeated interactions with
		are COVID-		multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
		19 positive		can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated

Note: Diligent hand hygiene is essential	l and should occur before and after PPE is donned and doffed.
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			footwear while at work,	footwear while at work,	footwear while at work,
			and shower immediately	and shower immediately	and shower immediately
			upon returning home after	upon returning home after	upon returning home after
			every shift.	every shift.	every shift.
			Medical mask	Medical mask	Medical mask
			Gown	Gown	Gown
			Gloves	Gloves	Gloves
			Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
			face shield)	face shield)	face shield)
	Aerosol-	Respirator N95 or FFP2	Aerosol-generating	Aerosol-generating	Aerosol-generating
	generating	standard, or equivalent.	procedures should not be	procedures should not be	procedures performed on
	procedures	Gown	performed on COVID-19	performed on COVID-19	COVID-19 patients in LTC,
	performed	Gloves	patients in LTC to reduce	patients in LTC to reduce	only when absolutely
	on COVID-19	Eye protection	need for N95 masks	need for N95 masks	necessary to reduce need
	patients	Apron	No PPE required	No PPE required	for N95 masks
					Respirator N95 or FFP2
					standard, or equivalent.
					Gown
					Gloves
					Eye protection
					Apron
Cleaners	Entering the	Medical mask	Room cleaning of COVID	Room cleaning of COVID	Room cleaning of COVID
	room of	Gown	pts to discretionary	pts to discretionary	pts to discretionary
	COVID-19	Heavy duty gloves	cleaning only – at	cleaning only – at	cleaning only – at
	patients	Eye protection (if risk of	discretion of health care	discretion of health care	discretion of health care
		splash from organic	provider. Limit cleaning of	provider. Limit cleaning of	provider. Limit cleaning of
		material or chemicals)	patient rooms while	patient rooms while	patient rooms while
		Boots or closed work shoes	COVID-19 patient or cohort	COVID-19 patient or cohort	COVID-19 patient or cohort
			remains in place – reduce	remains in place – reduce	remains in place – reduce
			cleaning to times when	cleaning to times when	cleaning to times when
			patients are not present in	patients are not present in	patients are not present in
			rooms. Limit movement of	rooms. Limit movement of	rooms. Limit movement of
		1	patients to reduce	patients to reduce	patients to reduce

				transmission. Extended	transmission. Extended	transmission. Extended
				use of PPE when cleaning a	use of PPE when cleaning a	use of PPE when cleaning a
				series of rooms.	series of rooms.	series of rooms.
	Visitors	Entering the	Medical mask	Essential visitors only, no	Essential visitors only, no	Essential visitors only, no
		room of a	Gown	PPE provided to visitors -	PPE provided to visitors -	PPE provided to visitors -
		COVID-19	Gloves	ensure visitors are	ensure visitors are	ensure visitors are
		patient		informed of risk. (will	informed of risk. (will	informed of risk. (will
				require messaging from	require messaging from	require messaging from
				РНО)	РНО)	PHO)
Other areas	All staff,	Activity that	Medical mask	Droplet and Contact	Droplet and Contact	Droplet and Contact
of patient	including	involves	Gown	Precautions. During any	Precautions. During any	Precautions. During any
transit (e.g.	health care	contact with	Gloves	activity that requires a	activity that requires a	activity that requires a
wards,	workers.	patients	Eye protection (goggles or	primary care provider or	primary care provider or	primary care provider or
corridors).			face shield)	nurse to accompany the	nurse to accompany the	nurse to accompany the
				patient, the nurse or	patient, the nurse or	patient, the nurse or
				primary care provider	primary care provider	primary care provider
				assumes responsibility for	assumes responsibility for	assumes responsibility for
				pushing the stretcher -	pushing the stretcher -	pushing the stretcher -
				minimize number of people	minimize number of people	minimize number of people
				involved in transport	involved in transport	involved in transport
				wherever possible (e.g., In	wherever possible (e.g., In	wherever possible (e.g., In
				situations where there is	situations where there is	situations where there is
				normally a "sending nurse"	normally a "sending nurse"	normally a "sending nurse"
				and a "receiving nurse",	and a "receiving nurse",	and a "receiving nurse",
				the receiving nurse comes	the receiving nurse comes	the receiving nurse comes
				down to transport the	down to transport the	down to transport the
				patient).	patient).	patient).
				Extended use of same mask	Extended use of same mask	Extended use of same
				and eye protection for	and eye protection for	mask and eye protection
				repeated interactions with	repeated interactions with	for repeated interactions
				multiple patients. Gloves	multiple patients. Gloves	with multiple patients.
				can be changed between	can be changed between	Gloves can be changed

				each patient encounter.	each patient encounter.	between each patient
				Gowns are to be used as	Gowns are to be used as	encounter. Gowns are to
				per routine practices.	per routine practices.	be used as per routine
				It is recommended that	It is recommended that	practices.
				staff use dedicated	staff use dedicated	It is recommended that
				footwear while at work,	footwear while at work,	staff use dedicated
				and shower immediately	and shower immediately	footwear while at work,
				upon returning home after	upon returning home after	and shower immediately
				every shift.	every shift.	upon returning home after
				Medical mask	Medical mask	every shift.
				Gown	Gown	Medical mask
				Gloves	Gloves	Gown
				Eye protection (goggles or	Eye protection (goggles or	Gloves
				face shield)	face shield)	Eye protection (goggles or
						face shield)
Administrativ	All staff,	Administrativ	Where there is no patient	Where there is no patient	Where there is no patient	Where there is no patient
e areas	including	e tasks that	or public contact, PPE is	or public contact, PPE is	or public contact, PPE is	or public contact, PPE is
	health care	do not	not needed. Use social	not needed. Use social	not needed. Use social	not needed. Use social
	workers.	involve	distancing.	distancing.	distancing.	distancing.
		contact with				
		COVID-19				
		patients				

Outpatient	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
facilities			Type of PPE or procedure			
Consultation	Health care	Physical	Medical mask	Stay with assigned cohort	Stay with assigned cohort	Stay with assigned cohort
room	workers	examination	Gown	of patients and extended	of patients and extended	of patients and extended
		of patient	Gloves	use of same mask, eye	use of same mask, eye	use of same mask, eye
		with	Eye protection (goggles or	protection and gown for	protection and gown for	protection and gown for
		respiratory	face shield)	repeated interactions with	repeated interactions with	repeated interactions with
		symptoms		multiple patients. Gloves	multiple patients. Gloves	multiple patients. Gloves
				can be changed between	can be changed between	can be changed between
				each patient encounter.	each patient encounter.	each patient encounter.
				It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Gloves	Gloves	Gloves
				Eye protection (goggles or	Eye protection (goggles or	Eye protection (goggles or
				face shield)	face shield)	face shield)
	Health care	Physical	PPE according to routine			
	workers	examination	practices and risk	practices and risk	practices and risk	practices and risk
		of patients	assessment.	assessment.	assessment.	assessment.
		without				
		respiratory				
		symptoms				
	Patients with	Any	Provide medical mask if	No mask on patient	No mask on patient	Provide medical mask if
	respiratory		tolerated			tolerated
	symptoms					

Note: Diligent hand hygiene is essential and should occur before and after PPE is donned and doffed.

	Patients	Any	No PPE required	No PPE required	No PPE required	No PPE required
	without					
	respiratory					
	symptoms					
	Cleaners	After and	Medical mask	Reduce cleaning to times	Reduce cleaning to times	Reduce cleaning to times
		between	Gown	when patients are not	when patients are not	when patients are not
		consultations	Heavy duty gloves	present in rooms. Limit	present in rooms. Limit	present in rooms. Limit
		with patients	Eye protection (if risk of	movement of patients to	movement of patients to	movement of patients to
		with	splash from organic	reduce transmission.	reduce transmission.	reduce transmission.
		respiratory	material or chemicals).	Extended use of PPE when	Extended use of PPE when	Extended use of PPE when
		symptoms.	Boots or closed work	cleaning a series of rooms.	cleaning a series of rooms.	cleaning a series of rooms.
			shoes	It is recommended that	It is recommended that	It is recommended that
				staff use dedicated	staff use dedicated	staff use dedicated
				footwear while at work,	footwear while at work,	footwear while at work,
				and shower immediately	and shower immediately	and shower immediately
				upon returning home after	upon returning home after	upon returning home after
				every shift.	every shift.	every shift.
				Medical mask	Medical mask	Medical mask
				Gown	Gown	Gown
				Heavy duty gloves	Heavy duty gloves	Heavy duty gloves
				Eye protection (if risk of	Eye protection (if risk of	Eye protection (if risk of
				splash from organic	splash from organic	splash from organic
				material or chemicals)	material or chemicals)	material or chemicals)
				Boots or closed work shoes	Boots or closed work shoes	Boots or closed work shoes
Waiting	Patients with	Any	Provide medical mask if			
room	respiratory		tolerated.	tolerated.	tolerated.	tolerated.
	symptoms					
			Immediately move the	Immediately move the	Immediately move the	Immediately move the
			patient to an isolation			
			room or separate area			
			away from others; if this is			
			not feasible, ensure	not feasible, ensure spatial	not feasible, ensure spatial	not feasible, ensure spatial
			spatial distance of at least	distance of at least 2	distance of at least 2	distance of at least 2

			2 metres from other	metres from other	metres from other	metres from other
			patients.	patients.	patients.	patients.
	Patients	Any	No PPE required	No PPE required	No PPE required	No PPE required
	without					
	respiratory					
	symptoms					
Administrativ	All staff,	Administrative	Where there is no patient			
e areas	including	tasks	or public contact, PPE is			
	health care		not needed. Use social			
	workers		distancing.	distancing.	distancing.	distancing.
Reception	Health care	Preliminary	Maintain spatial distance	Maintain spatial distance	Maintain spatial distance	Maintain spatial distance
	workers	screening not	of at least 2 metres.			
		involving	No PPE required	No PPE required	No PPE required	No PPE required
		direct contact				
	Patients with	Any	Maintain spatial distance	Maintain spatial distance	Maintain spatial distance	Maintain spatial distance
	respiratory		of at least 2 metres.			
	symptoms		Provide medical mask if	No PPE required.	No PPE required.	No PPE required.
			tolerated.	Provide medical mask if	Provide medical mask if	Provide medical mask if
				tolerated.	tolerated.	tolerated.
	Patients	Any	Maintain spatial distance	Maintain spatial distance	Maintain spatial distance	Maintain spatial distance
	without		of at least 2 metres.			
	respiratory		No PPE required	No PPE required	No PPE required	No PPE required
	symptoms					

Community	Personnel	Activity	Stage 1	Stage 6	Stage 5	Stage 4
			Type of PPE or procedure	Type of PPE or procedure	Type of PPE or procedure	Type of PPE or procedure
Home	Patients with respiratory symptoms	Any	Maintain spatial distance of at least 2 metres. Provide medical mask if tolerated, except when sleeping.	Maintain spatial distance of at least 2 metres. Provide medical mask if tolerated, except when sleeping.	Maintain spatial distance of at least 2 metres. Provide medical mask if tolerated, except when sleeping.	Maintain spatial distance of at least 2 metres. Provide medical mask if tolerated, except when sleeping.
	Caregiver	Entering the patient's room, but not providing direct care or assistance	Medical mask	No PPE	No PPE	Medical mask
	Caregiver	Providing direct care or when handling stool, urine, or waste from COVID-19 patient being cared for at home	Gloves Medical mask Apron (if risk of splash)	Medical mask	Medical mask	Gloves Medical mask Apron (if risk of splash)
	Health care workers	Providing direct care or assistance to a COVID-19 patient at home	Medical mask Gown Gloves Eye protection	If possible, arrange schedule to care for Non- COVID-19 patients early in shift, prior to seeing COVID-19 patent	If possible, arrange schedule to care for Non- COVID-19 patients early in shift, prior to seeing COVID-19 patent	If possible, arrange schedule to care for Non- COVID-19 patients early in shift, prior to seeing COVID-19 patent
Public areas (e.g. schools,	Individuals without	Any	No PPE required	No PPE required	No PPE required	No PPE required

Note: Diligent hand hygiene is essential and should occur before and after PPE is donned and doffed.

shopping	g respiratory			
malls, tra	ain symptoms			
stations)				

Appendix D: Respirators approved under standards used in other countries

Country	Performance Standard	Acceptable product classifications	Standards/Guidance Documents	Protection Factor ≥ 10
Australia	AS/NZS 1716:2012	P3 P2	AS/NZS 1715:2009	YES
Brazil	ABNT/NBR 13694:1996 and 13697:2010	P3 P2	Fundacentro CDU 614.894	YES
China	GB 2626-2006	KN 100 KP100 KN95 KP95	GB/T 18664—2002	YES
Europe	EN 149-2001	FFP3 FFP2	EN 529:2005	YES
Japan	JMHLW-2000	DS/DL3 DS/DL2	JIS T8150: 2006	YES
Korea	KMOEL-2017-64	Special 1st	KOSHA GUIDE H-82- 2015	YES
Mexico	NOM-116-2009	N100, P100, R100 N99, P99, R99 N95, P95, R95	NOM-116	YES
US NIOSH Requirements	NIOSH approved 42 CFR 84	N100, P100, R100 N99, P99, R99 N95, P95, R95	OSHA 29CFR1910.134	YES

Table 1 – Respirators approved under standards used in other countries (similar to NIOSH-approved N95s in US)

Appendix E: Link to British Columbia's Pandemic Influenza Response Plan

British Columbia's Pandemic Influenza Response Plan (2012)

An Ethical Framework for Decision Making: Supporting British Columbia's Pandemic Influenza Planning and Response

(https://www2.gov.bc.ca/assets/gov/health/about-bc-s-health-care-system/office-of-the-provincialhealth-officer/reports-publications/bc-pandemic-influenza-ethics-framework-2012.pdf)