Identification and Use of Personal Protective Equipment in the Clinical Setting During the Coronavirus (COVID-19) Pandemic Policy

1. Purpose

The purpose of the Identification and Use of Personal Protective Equipment in the Clinical Setting During the Coronavirus (COVID-19) Pandemic Policy is to provide advice on the appropriate use of Personal Protective Equipment (PPE) to assist in the prevention of patient to patient or patient to staff member transmission of the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in Western Australia (WA) during the COVID-19 pandemic.


The intent of the Policy is to ensure

- PPE requirements are appropriate to the extent of community transmission in WA during the current phase of the COVID-19 pandemic
- staff members are trained in the use of PPE
- staff members are provided with PPE that is appropriate for use and provides them with adequate protection.

The use of PPE is only effective when used in conjunction with other prevention strategies as outlined in the Department of Health Minimising the risk of infectious respiratory disease transmission in the context of COVID-19 - The hierarchy of controls

The advice contained in this Policy, has been modified over time to adapt to the emergence of data on transmissibility and advent of more highly transmissible variants of the SARS-CoV-2 virus. This Policy will be subject to change if sustained community transmission is detected in WA.

The use of PPE for other infective illnesses requiring the use of PPE is not outlined in this Policy. Please refer to existing policies and procedures for other situations.

This Policy is a mandatory requirement under the Public Health Policy Framework pursuant to section 26(2)(c) of the Health Services Act 2016.

Ensure you have the latest version from the Policy Frameworks website.
2. **Applicability**

This Policy is applicable to all Health Service Providers.

To the extent that the requirements contained within this Policy are applicable to the services purchased from contracted health entities, Health Service Providers are responsible for ensuring these requirements are accurately reflected in the relevant contract and managed accordingly.

3. **Policy requirements**

Health Service Providers must adhere to the following Policy requirements.

3.1 Staff must apply standard precautions for all patients at all times. This includes compliance with the ‘5 Moments’ for hand hygiene and a risk assessment to determine the need for transmission-based precautions, the level of PPE required, including for when performing aerosol generating procedures, as described in the Australian Guidelines for the Prevention and Control of Infection in Healthcare.

3.2 Staff providing care to those patients admitted to a WA healthcare facility who are a confirmed COVID-19 case OR who are a ‘suspect’ COVID-19 case i.e. have clinical evidence of disease AND epidemiological evidence of risk of exposure to SARS-CoV-2 as per the CDNA Guidelines, must wear a particulate filter respirator (P2 or N95 respirator), protective eyewear, gown and gloves.

3.3 Staff providing care to those patients admitted to a WA healthcare facility who have an epidemiological risk for SARS-CoV-2, regardless of symptoms, must wear a particulate filter respirator, protective eyewear, gown and gloves.

In WA, an epidemiological risk is defined as those persons who are subject to quarantine requirements, including international passengers, international flight and maritime crew, interstate arrivals from restricted locations and persons identified as close contacts of a confirmed case.

3.4 Staff providing care to those patients admitted to a WA healthcare facility who do not meet the criteria of a ‘suspect’ case or have no epidemiological risk for SARS-CoV-2 but are known or suspected to be infected with infectious agents transmitted by respiratory droplets are to be managed with a surgical mask, protective eyewear, gown and gloves, except when an alternative airborne transmission risk is suspected e.g. tuberculosis.

3.5 All staff members must be trained in the correct use of PPE. This includes identification of the correct PPE and correct donning and doffing sequences. The correct sequence for donning and doffing PPE is outlined in the Related document Personal and Protective Equipment (PPE) poster.

3.6 The PPE that is to be used in specific settings and circumstances is outlined in the Related document Appendix 1: Requirements for Personal Protective Equipment. Only PPE that is approved by the Therapeutic Goods Administration (TGA) or the Health Support Services COVID-19 Substitution Committee must be used.

3.7 Health Service Providers are responsible for ensuring a quantitative fit-test is performed on all staff identified as high risk for exposure to pathogens transmitted by the airborne route or where there may be an increased risk of disease transmission when aerosol generating procedures are performed.
3.8 Health Service Providers are required to keep a register of all staff tested including date, time, particulate filter respirator brand, style, size and the result for each respirator tested.

3.9 All staff are required to know the particulate filter respirator brand, style and size that they have passed a fit test for and ensure this is available for use in their area of work.

3.10 Health Service Providers are responsible for ensuring an action plan is initiated i.e. alternative airborne protection via a powered air purifying respirator or re-deployment if the fit test process is unsuccessful in identifying a suitable particulate filter respirator from available supplies.

3.11 Health Service Providers are responsible for communicating to all staff members any changes to this policy.

4. Compliance monitoring

Health Service Providers are responsible for monitoring and ensuring compliance with the Policy.

5. Related documents

The following documents are mandatory pursuant to this Policy:
- Appendix 1: Requirements for Personal Protective Equipment
- Personal and Protective Equipment (PPE) poster

6. Supporting information

The following information is not mandatory but informs and/or supports the implementation of this Policy:
- Coronavirus Disease - 2019 (COVID-19) Infection Prevention and Control in Western Australian Healthcare Facilities
- ICEG Guidance on the use of personal protective equipment (PPE) for healthcare workers in the context of COVID-19 (10 June 2021)
- Donning and Doffing Personal Protective Equipment PPE video
- Department of Health Minimising the risk of infectious respiratory disease transmission in the context of COVID-19 the hierarchy of controls.

7. Definitions

The following definition(s) are relevant to this Policy.

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
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<tbody>
<tr>
<td>Aerosol generating procedures (AGPs)</td>
<td>Are those procedures that promote the generation of fine airborne particles (aerosols) that may result in the risk of airborne transmission of disease (refer Appendix 2).</td>
</tr>
<tr>
<td>Airborne precautions</td>
<td>Practices used to prevent the transmission of pathogens spread by the airborne route via particles in the respirable size range that remain infective over time and distance. Airborne precautions include the use of a PFR, a fluid resistant gown, gloves and protective eyewear and the patient is accommodated in a NPIR when possible.</td>
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<tr>
<td>Confirmed case of COVID-19</td>
<td><strong>CDNA case definitions</strong> need to be accessed to ensure current criteria are referenced. Currently, the definition of a confirmed case of</td>
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</table>

Ensure you have the latest version from the Policy Frameworks website.
| **Contact precautions** | Practices used to prevent the transmission of pathogens that are spread by direct or indirect contact with the patient or the patient’s environment which cannot be contained by standard precautions alone. Contact precautions include the use of gloves, an apron or fluid resistant gown (dependant on the degree of risk of contact with blood and body fluids). |
| **Droplet precautions** | Practices used to prevent transmission of pathogens that are spread by respiratory droplets i.e. large particles > 5 microns. Transmission via large droplets requires close contact as the droplets do not remain suspended in the air and generally only travel short distances. Droplet precautions include the use of a surgical mask and protective eyewear. |
| **Epidemiological risk** | In WA, an epidemiological risk is defined as those persons who are subject to quarantine requirements, including international passengers, international flight and maritime crew, interstate arrivals from restricted locations and persons identified as close contacts of a confirmed case. |
| **Fit check** | A fit check is the minimum standard at the point of use for staff using PFRs. No clinical activity shall be undertaken until a satisfactory fit check has been achieved. It involves a check each time a mask is put on to ensure the PFR is properly applied, that a good seal is achieved over the bridge of the nose and mouth and there are no gaps between the face and respirator. |
| **Fit test** | A quantitative fit test is a validated method to determine whether the type of respirator being worn provides an adequate seal with a person’s face. The testing is done while a person is wearing a PFR attached to a testing unit while performing a number of physical movements and talking exercises. |
| **Particulate filter respirators (PFRs)** | PFRs used in WA are the P2 or N95 respirators that filter at least 94 percent of 0.3 micron particles from the air. Both PFRs are appropriate for use with airborne precautions. |
| **Powered air purifying respirators (PAPR)** | PAPRs are an alternative to PFRs for the care of patients requiring airborne precautions and should only be used by those trained and who are deemed competent in their use. |
| **Standard precautions** | Standard precautions are the work practices required to achieve a basic level of infection prevention and control. The use of standard precautions aims to minimise, and where possible, eliminate the risk of transmission of infection. |
| **Significant community transmission** | When a significant number of new COVID-19 cases are occurring in the community. The number of cases required to meet this definition will vary depending on the context and will be defined by public health authorities. |
| **Suspect case of COVID-19** | [CDNA case definitions](#) need to be accessed to ensure current criteria are referenced. The suspect case definition is intended to identify those who may have an increased likelihood of current SARS-CoV-2 infection. A suspect case must meet specific clinical and epidemiological criteria. |
Transmission based precautions (TBPs) Practices used in addition to standard precautions to prevent transmission of infection. TBPs include contact, droplet and airborne precautions and are used for patients known or suspected to be infected or colonised with epidemiologically important or highly transmissible pathogens that can transmit or cause infection. They are implemented based upon the mode of transmission of the pathogen.

8. Policy contact

Enquiries relating to this Policy may be directed to:

Title: Healthcare Associated Infection Unit
Directorate: Communicable Disease Control Directorate
Email: CDCD.Directorate@health.wa.gov.au

9. Document control

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10. Approval

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<th>Nicole O’Keefe Assistant Director General Strategy and Governance Division, Department of Health</th>
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<th>Current Approval</th>
<th>Dr Andrew Robertson Assistant Director/Chief Health Officer Public and Aboriginal Health Division, Department of Health</th>
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<td></td>
<td>15 July 2021</td>
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Appendix 1: Requirements for Personal Protective Equipment

**General requirements**

**Standard precautions:** are required for all patients at all times and this shall include appropriate use of PPE following a risk assessment of the patient’s provisional diagnosis and any proposed procedure.

**PPE may include** disposable gloves, protective clothing (fluid resistant gowns or aprons), protective eyewear (safety goggles, face visors/shields) and masks (surgical mask or a PFR).

Use of boots or shoe covers is not recommended unless gross contamination is anticipated or required as standard attire e.g. operating theatre or trauma room.

A head covering can be worn, as part of standard operating theatre attire or when performing a sterile/aseptic procedure or to secure hair. Disposable head coverings are preferable, however if fabric, they must be laundered daily.

Appropriate PPE is required by staff when providing care for any patient, irrespective of their COVID-19 vaccination status, when there is a risk of exposure to blood or body fluids.

**Aerosol generating procedures**

Instrumentation or surgical procedures on the respiratory tract including:

- insertion or removal of endotracheal tube
- intentional or inadvertent disconnection/reconnection of closed ventilator circuit
- high frequency oscillatory ventilation (HFOV)
- open oropharyngeal or tracheal suctioning
- upper respiratory instrumentation or surgery
  - e.g. bronchoscopy, tracheotomy, ear nose throat surgery
- surgical or post mortem procedures on respiratory tract involving high-speed devices
- intercostal catheter insertion for relief of pneumothorax
- thoracic surgery that involves entering the lungs.

Other procedures that can generate respiratory aerosols

- manual or non-invasive ventilation (NIV);
  - bi-level positive airway pressure ventilation (BiPAP)
  - continuous positive airway pressure ventilation (CPAP)
- collection of induced sputum
- high flow nasal oxygen (HFNO)
- diagnostic instrumentation of the upper digestive tract, including transoesophageal echocardiography
- cardiopulmonary resuscitation (CPR).
Clinical scenarios for PPE use

1. Patient does not meet the definition of confirmed, suspect or epidemiological risk for COVID-19 in the setting of no or limited community transmission

Given the low incidence of COVID-19 in WA, standard precautions are sufficient for patients who do not meet the definition of confirmed, suspect or epidemiological risk for COVID-19. Transmission-based precautions are required for patients with or suspected to have transmissible infections other than COVID-19.

As part of standard precautions, PPE shall be used if staff members are likely to be exposed to potentially infectious materials including blood, other bodily fluids or respiratory secretions.

A PFR is not necessary when performing AGPs on patients who do not meet the definition of confirmed or suspect case of COVID-19, however staff are to wear appropriate PPE i.e. a surgical mask, protective eyewear, gown and gloves.

Aprons or fluid repellent gowns are only required in situations where there is risk of exposure to blood, body substances, and other potentially infectious material.

2. Patient who meets the definition of confirmed, suspect or epidemiological risk for COVID-19 in the setting of no or limited community transmission

Evidence suggests that the predominant mode of human-to-human transmission of SARS-CoV-2 is through droplets via direct and close contact with an infected person and indirectly via contaminated objects and surfaces, or fomite transmission. Additionally, there is support that fine airborne particles (<5 microns) i.e. aerosols, may stay suspended in the air and travel greater distances and contribute to transmission. AGPs and aerosol generating behaviours (AGBs) such as shouting can promote the generation of fine airborne particles.

As the predominant mode of transmission in any individual case is difficult to predict, standard, contact and airborne precautions are required to care for any confirmed, suspect or epidemiological risk for COVID-19. This includes:

- particulate filter respirator i.e. P2 or N95 respirator
- protective eyewear
- protective clothing i.e. fluid repellent gown
- gloves

All staff wearing a PFR must have undertaken a fit test to determine the correct PFR for their facial features. It is preferable staff achieve a fit test for two different PFRs that they can access.

The need for nebulisers must be considered and alternative medication administration devices e.g. spacers used where possible.

Boots, shoe covers, and head coverings are not routinely required.

3. The patient in the setting of significant community transmission

In the setting of significant community transmission of SARS-CoV-2, recommended PPE guidelines will be modified.

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Powered air-purifying respirators (PAPR)

PAPRs are an alternative to PFRs for the care of selected patients requiring airborne precautions.

They do not provide greater protection than a correctly fitted and worn PFR. They may be considered for use from a comfort perspective when a staff member is required to remain in a confirmed COVID-19 patient’s room for extended time periods.

In relation to Policy requirement 3.9, the following additional conditions must be fulfilled:

- PAPRs must be TGA-approved and approved for use by the Health Service Provider
- Health Service Providers using PAPR must have a training program in place
- PAPRs must only be used by staff members trained in their use, including donning and doffing
- PAPRs must be reprocessed after each use in accordance with the manufacturer’s instructions and/or local guidelines.

Patient PPE Use

Patients attending clinical settings who meet the confirmed, suspect or epidemiological risk for COVID-19 OR have any acute respiratory symptoms OR fever where no other source is identifiable, shall be given a surgical mask and instructed how to don this appropriately.

If transfer of a patient with confirmed, suspect or epidemiological risk for COVID-19 is required, they shall wear a surgical mask during transfer if tolerated, instructed to follow cough etiquette and respiratory hygiene.
Table 1 Recommended PPE

Standard and transmission-based precautions shall be used for all patients with or suspected to have infections other than COVID-19.

<table>
<thead>
<tr>
<th>Patient Scenario</th>
<th>Hand hygiene</th>
<th>P2 or N95 mask</th>
<th>Surgical mask</th>
<th>Protective eyewear</th>
<th>Gloves</th>
<th>Fluid resistant gown or apron</th>
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</thead>
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<tr>
<td>Patient <strong>does not</strong> meet the definition of confirmed, suspect or has no epidemiological risk factors for COVID-19</td>
<td>✓</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>As per standard precautions</td>
<td>As per standard precautions</td>
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<tr>
<td>Patient <strong>does</strong> meet the definition of confirmed, suspect or has epidemiological risk factors for COVID-19</td>
<td>✓</td>
<td>✓</td>
<td>Ｘ</td>
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<td>✓</td>
<td>✓ **</td>
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<td></td>
<td>As per standard precautions</td>
<td>As per standard precautions</td>
<td>As per standard precautions</td>
<td>As per standard precautions*</td>
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<tr>
<td>No COVID-19 risk but patient is known or suspected to be infected with an infectious agent transmitted by respiratory droplets</td>
<td>✓</td>
<td>Ｘ</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
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</table>

* Aprons or long-sleeve fluid resistant gowns are to be used in situations when there is a risk of exposure to blood, body substances, and other potentially infectious material.

** Long-sleeve fluid resistant gowns must be used with confirmed or ‘suspect’ COVID-19 patients.
Appendix 2: Document Control

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<th>Version</th>
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<td>May 2020</td>
<td>14 May 2020</td>
<td>Major Amendment details summarised below</td>
</tr>
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</table>

The following additions and clarifications have been made:

1) Standard and contact precautions are required when managing all at risk patients

2) Standard contact and airborne precautions must be used when:
   - managing all critically unwell patients with confirmed or suspected COVID-19
   - undertaken any aerosol generating procedures in patients with confirmed or suspected COVID-19

3) Standard contact and airborne precautions should be used, in asymptomatic patients in the setting of limited community transmission, in patients undergoing specific airway or upper digestive tract (aerodigestive) procedures with prolonged risk of aerosol generation. Standard contact and droplet precautions should be used in remaining patients without confirmed COVID-19 infection or symptoms suggestive of COVID-19 undergoing other aerosol generating procedures

4) Routine pre-operative testing is not routinely recommended, particularly if emergency procedures are required, and does not replace the need to pre-operative screening for symptoms or recent exposures. Testing of asymptomatic patients prior to surgery is only approved for limited number of patients undergoing specific aerodigestive procedures where prolonged aerosol exposure is expected

5) The use of droplet precautions for all clinical encounters is not recommended in the setting of very limited community transmission. Examples of specific encounters involving very close face to face contact for prolonged periods are included. Additional PPE should be considered for those in these specific situations

6) Amendment to section 3.5 Role of COVID-19 testing to include:

   As at the date of this revision of the Policy, the Chief Health Officer has given approval in writing pursuant to the Directions to the following approved persons:

   a) medical practitioners to request a test in respect of patients about to undergo any surgical procedure involving:
      i. the upper and lower airway, oral cavity or upper digestive tract where aerosolisation of tissue is expected (by written approval dated 24 April 2020);
      ii. Category 1 cancers involving mucosal surfaces of the upper airway or aerodigestive tract (by written approval dated 24 April 2020)
   b) to conduct a test outside of the requirements of the Directions:
      i. none outside the requirements of the Directions.
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The following deletions have been made:

1) The list of procedures associated with prolonged exposures to aerosols has been removed in favour of a description of the types of procedure where there remains a risk
2) The description of potential SWAT teams has been removed as this will be informed by local resources
3) Donning and Doffing instructions have been replaced by a new Related document.

The following additions, clarifications and deletions have been made in alignment with Australian Health Protection Principle Committee as per the Coronavirus Disease 2019 (COVID-19) CDNA National Guidelines for Public Health Units recommendations:

1) Standard contact and airborne precautions should only be used in confirmed, probable or suspected cases of COVID-19 who are undergoing AGPs
2) The previous use of airborne precautions for all prolonged AGPs has been removed
3) Further clarity has been provided in the Decision Tree with regard to patients not meeting case definitions (previously referred to as UNKNOWN COVID-19 patient)
4) The list of AGPs has been modified
5) The previous recommendation for mask use for specific outpatient settings has been removed.

The following changes have also been made:

6) The role of COVID-19 Testing has been removed from section 3.0 Policy Requirements
7) Definitions populated at section 7.0
8) Inclusion of a new Related document Appendix 1: Requirements for Personal Protective Equipment. Appendix 1 includes Clinical Scenarios for PPE Use, Use of PPE in specific situations and Table 1: Recommended PPE in accordance with the Decision Tree
9) Inclusion of new Supporting information Donning and Doffing Personal Protective Equipment PPE Video.

The following additions and clarifications have been made:
• Inclusion of ‘no or limited community transmission’

Section 3 in policy requirements:
• Paragraph included advising PPE for consideration if staff are likely to be exposed to potentially infectious materials
• Use of ‘scenario’ to replace ‘categories’
• Simplification of Decision Tree

Section 7 in definitions:
• Definition of ‘Airborne precautions’ includes accommodation of patient in a negative pressure isolation room where possible
• Amended ‘COVID-19 Case Definition’ to ‘Confirmed, probable or suspected case of COVID-19’ and addition of consideration of asymptomatic individuals in self-quarantine in WA
• Addition of definitions for ‘Fit Checked’ and ‘Powered Air Purifying Respirators (PAPR)’
• Addition of ‘fit-checked’ in relation to a P2 or N95 respirator

Appendix 1 in requirements for personal protective equipment:
• Clarification of PPE requirements for confirmed patients that have been cleared of COVID-19 by a Public Health Physician, Infectious Diseases Physician or Clinical Microbiologist
• Clarification that PAPRs do not provide greater protection than a correctly fit-checked P2 or N95 respirator for patients requiring airborne precautions
• Addition of ‘and other sites’ in section ‘Use in Emergency Departments’
• Alignment of Table 1 to scenarios and definitions.

The following deletions have been made:

Section 1 in purpose:
• Dot point ‘patients received appropriate care’ removed
• Statement ‘Additional PPE requirements will be considered and communicated if sustained or widespread community transmission is detected’ removed

Appendix 1 in requirements for personal protective equipment:
• Scenario ‘The symptomatic patient or asymptomatic patient patients in mandatory self-isolation’ has been removed as this point is adequately addressed by Scenario 2
• Guidance maintenance of distance when performing AGPs on non-COVID-19 patients in the ICU removed as not always practicable
• Guidance to use aprons or long-sleeve gown where there is a risk of exposure to blood, body substances, and other potentially infectious materials removed as is appropriately addressed in recommended transmission-based precautions
• Removal of widespread community transmission from Table 1.

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<th>5 February 2021</th>
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The following additions, clarifications and deletions have been made:

Ensure you have the latest version from the Policy Frameworks website.
• Pre-purpose statement has been removed

Section 1 Purpose:

• It now states that use of PPE is only effective when used in conjunction with other prevention strategies as outlined in the *National Institute for Occupational Safety and Health (NIOSH) Hierarchy of Controls* (included also as new Supporting information document at section 6)

Section 3 Policy requirements:

• The scenarios previously included in Section 3.7 and the Decision tree have been removed
• Three additional scenarios have been listed at section 3.5 where airborne precautions are required for patients who are confirmed, probable or suspected cases of COVID-19 if they:
  o have severe disease such as those admitted to intensive care units
  o require frequent and/or prolonged episodes of care and adequate physical distancing cannot be maintained during clinical encounters
  o by nature of their condition, mental state or age exhibit challenging behaviours e.g. aggression, screaming and shouting and adequate physical distancing during clinical encounters cannot be maintained
• Requirements 3.3 and 3.4 consolidated into 3.5 and requirements 3.8 and 3.9 removed

Section 7 Definitions:

• Given the importance of the CDNA case definitions, definitions for a suspected, probable and confirmed case of COVID-19 have now been included. Definitions for prolonged episode of care and significant community transmission have been included

Appendix 1 Requirements for Personal Protective Equipment:

• Under Clinical Scenarios for PPE Use and Table 1 Recommended PPE, reference to specific clinical scenarios previously included in section 3.7 have been replaced with additional requirements in support of section 3.4, 3.5 and 3.6. Additional statements include the predominant mode of COVID-19 spread and detail about the new indications for airborne precautions
• Requirements under Use in the Intensive Care Units (ICUs), Use in Emergency Departments and other sites, Use in Operating and Procedure Rooms including Endoscopy Suites and Management of aggressive patients (including mental health setting) have been removed as these are now included in the broader policy requirements.

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The following additions have been made to the Policy to incorporate the introduction of quantitative fit-test of respirators used by high risk staff at WA public hospitals.

• Section 3 Policy Requirements:
  o 3.9 Health Service Providers are responsible for ensuring a quantitative fit-test is performed on all staff identified as high risk for exposure to pathogens

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transmitted by the airborne route or where there may be an increased risk of disease transmission when aerosol generating procedures are performed.

- 3.10 Health Service Providers are required to keep a register of all staff tested including date, time, respirator brand, style, size and the result for each respirator tested.
- 3.11 Health Service Providers are responsible for ensuring an action plan is initiated i.e. alternative airborne protection via a PAPR or re-deployment if the fit testing process is unsuccessful in identifying a suitable respirator from available supplies.

- Section 7 Definitions:
  - Definition of a quantitative fit test has been added.

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The following modifications have been made to the Policy:

- CDNA no longer have a ‘probable’ case definition – Section 7 modified and the term ‘probable’ removed throughout the Policy
- 3.4 modified to stipulate a PFR is to be worn for routine care of patients with confirmed or suspect COVID-19
- Appendix 1 updated to reflect change in PPE requirement
- Table 1 modified to reflect these changes.

This document can be made available in alternative formats on request for a person with a disability.

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