

POWH ED Initial Management of COVID-19

DRAFT v0.74



The Prince of Wales Hospital
& Health Services
Department of Emergency
Medicine

Personal Protective Equipment in ED

- Single room in ED “hot zone” preferred, prioritised for higher risk/ active respiratory symptoms/ need for Aerosol Generating Procedures (AGP)
- Surgical mask on patient.
- Standard precautions for all patients- in particular hand hygiene.
- Droplet and contact precautions during patient care (gown, glove, eye protection, surgical mask (NOT P2/N95))
- Airborne precautions for AGP or severe symptoms– gown, gloves, eye protection, P2/N95 mask
- ‘Buddy’ when doffing (removing) PPE.
- Latest guide is at <http://cec.health.nsw.gov.au/keep-patients-safe/Coronavirus-COVID-19/Guidance-for-health-professionals>

Definitions & Diagnosis

- The current case definition is found at: <https://www.health.nsw.gov.au/Infectious/diseases/Pages/2019-ncov-case-definition.aspx>
- See also: [POWH ED and ICU Flu and COVID Plan 2020](#) for local testing guideline and isolation guidelines. (ED SharePoint)
- SARS-Cov-2 PCR is highly specific, but only moderately sensitive for diagnosis. De-isolation decisions should be discussed with ID.
- The index of suspicion will increase if a patient displays typical features of COVID-19 pneumonia such as bilateral infiltrates on chest X-ray and/or lymphopaenia

Stage	Clinical Indicators	Investigations	Management
Mild	Mild respiratory symptoms. May require symptomatic support or evaluation of alternative diagnoses. No oxygen requirement.	SARS-CoV-2 PCR according to current guidelines +/- CXR	Manage out of hospital if safely possible using ID/ PHU follow-up services. Provide advice for when to return, GP letter. https://www1.health.nsw.gov.au/pds/ActivePDSDocuments/PD2014_025.pdf If admission required based on comorbidities/ social situation- respiratory, ID or Aged Care depending on dominant clinical picture. Recommend paracetamol. Avoid NSAIDs.
Moderate/ Severe	Respiratory symptoms and radiological changes evident. Peak risk of deterioration 5-8 days after onset of symptoms. <u>Moderate</u> SaO2 >92% on O2 up to 4LNP (or >90% if CLD) <u>Severe</u> Respiratory rate >30/min Escalating O2 requirement	SARS-CoV-2 PCR plus full respiratory panel. CXR vBG FBC CRP EUC LFT D dimer, troponin LDH, Ferritin Procalcitonin	Admit under respiratory, ID or Aged Care depending on dominant clinical picture. Supplemental oxygen – aiming for SaO2 >94% May adjust target 88-92% if chronic lung disease. <ul style="list-style-type: none"> • Nasal prongs up to 4L/min • Hudson Mask (HM) 6 to 10L/min • Non-rebreather (NRB) mask up to 10 to 15L/min • Consider prone position <p>Discuss/ document any appropriate limitations of care in the notes AND complete the <i>Resuscitation Plan– Adult</i> form, including details for any surrogate decision-maker. This discussion should be commenced at the earliest possible time after diagnosis, and is required prior to ICU referral.</p> <ul style="list-style-type: none"> • Oseltamivir if suspected influenza co-infection/ pending result • DVT prophylaxis • Restrictive fluid strategy for confirmed or strongly suspected COVID-19: IVF only if clinically dehydrated or not drinking. • Antibiotics as per eTG to cover Community Acquired Pneumonia (CAP) if co- or super-infection suspected • Use puffer and spacer if bronchodilator needed (NOT nebulisers) <p>Non-invasive Ventilation (NIV) or High Flow Nasal Prongs (HFNP) carry a high risk for aerosol production and should only be considered after discussion with AMO with an agreed aerosol risk mitigation plan (e.g. in negative pressure room, aerosol PPE).</p>
Critical	Respiratory failure or other significant organ dysfunction. Shock/ other organ failure	As above	As above plus ICU referral to consider intubation. <u>Referral triggers:</u> <ul style="list-style-type: none"> • requiring >6L HM to maintain SaO2 >92% (or accepted target as above) OR rapidly worsening work of breathing/ tachypnoea/ hypoxia/ haemodynamic instability • If agreed for ICU/ intubation: COVID intubation team 24/7: page 44347

References:

[ACEM COVID-19 Clinical Guidelines for Emergency for Emergency Medicine Departments in Australia and New Zealand V 1.0](#)
[The Australian and New Zealand Intensive Care Society \(ANZICS\) COVID-19 Guidelines V1](#)
[National COVID-19 Clinical Evidence Taskforce](#)

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