



Introduction

Updated 6 September 2023 – reflecting relevant policy changes – technical and clinical advice not updated since May 2023 due to Therapeutics TAG disestablishment. Document should only be used after awareness that the clinically relevant content has not been reviewed for currency since May 2023

This guideline is intended to be an accessible summary of hospital management of ADULTS (including in pregnancy) with confirmed or probable COVID-19. The earlier versions of this document are adapted from international 'living' guidelines for the Aotearoa New Zealand context by the Ministry of Health COVID-19 Therapeutics Advisory. This Therapeutics TAG group was disestablished in May 2023 and the current review has been undertaken by the clinical advisors within the outbreak response within Te Whatu Ora National Public Health Service and senior clinicians within the COVID-19 clinical advisors' group (a group of Aotearoa New Zealand clinicians, including representation from Infectious Diseases, Respiratory Medicine, Intensive Care, General Medicine, Obstetric Medicine, Primary Care, Emergency Medicine and Pharmacy). This update reflects changes to isolation and mask mandates announced by the government on 15 August 2023.

Further detailed guidance, including treatments that are either not recommended, or recommended only within a clinical trial, can be accessed in links to international guidance at the end of this document. Local specialist services with expertise in managing COVID-19 may consider emerging treatments outside of this guideline.

Additional details or differences on managing a pregnant woman are highlighted in orange rows just below the adult guidance.

Lastly, the management of COVID-19 in <u>immunocompromised patients</u> (including patients suspected to have persistent SARS-CoV-2 infection) presents unique challenges that are outside the scope of this guideline. Specialist advice from a patient's primary specialist **and** an Infectious Diseases physician or clinical microbiologist is strongly recommended.

⊄ • Severity

Mild

	Clinical definition	No symptoms	Any COVID symptoms without features of pneumonitis	A clinically stable parevidence of COVID • New onset (or w shortness of bread • Infiltrates on plane radiograph OR • Hypoxaemia that mild (92-94%), transient, or exercise-induced only (i.e., not requiring continuous oxygen therapy OR	-19 pneumonitis: orsening) ath OR in chest	Any of the following: • Requiring CPAP or high- flow nasal oxygen to maintain saturation ≥ 92% OR • Acute respiratory distress e.g., RR >30 OR • Rapidly deteriorating clinical trajectory	 Any of the following: Requiring mechanical ventilation to maintain saturation ≥ 92% OR Requiring advanced circulatory support
	Stage of infection	Almost all cases in the first 5 days; throughout in most vaccinated patients without risk factors			atients with significa		evelops ~ 5-7 days post ajectory of deterioration
	Site of care	Com	munity	Individual decision		Hospital	
	Anti-viral therapy		OR remdesivir O Iness AND meets	R molnupiravir high risk criteria	Consider remde	sivir if <7d illness	Nil
	Respiratory support	Nil		Oxygen via NP	CPAP (or HFNO)	Mechanical ventilation	
Therapeutics	VTE prophylaxis	Nil		e enoxaparin spitalised	Low dose enoxaparin (or consider therapeutic dose)	Low dos	e enoxaparin
	Corticosteroids	Nil		Nil		Dexamethason	e
	Immune modulation		Nil	Nil		r Tocilizumab	Tocilizumab
	Antibody therapy	Nil					

Figure 1 - Severity assessment and therapeutic options in COVID-19 management.

Initial management

	MILD	MODERATE	SEVERE / CRITICAL
DEFINITION	No symptoms OR URTI symptoms only OR cough, new myalgia or asthenia <u>without</u> new shortness of breath or reduction in resting oxygen saturation	Stable adult patient presenting with shortness of breath and/or reduction in resting oxygen saturation while breathing air. Able to maintain oxygen saturation \geq 92% (or \geq 90% for patients with chronic lung disease) with up to 4 L/min oxygen via nasal prongs	Adult patients meeting any of the following criteria: • Respiratory rate ≥30/min • Oxygen saturation <92% on 4L/min oxygen via nasal prongs • Clinically deteriorating
	Pregnancy: use an oxygen satura	ition target of <u>></u> 94% rather than	ו ≥92%
BASELINE TESTING & WORK-UP	 diagnosis responsible for hospit 19 medical conditions during ev Pregnancy: also request urine p cross match if delivery is though <i>NB</i> CXR and CT chest / CTPA ca 	protein:creatinine ratio, coagulatior	onsider concurrent non-COVID- profile, group and screen (or y if clinically indicated.
	available. There are no validated for prognostic purposes in seve	d pregnancy-specific values for D-d re/deteriorating COVID-19.	limer; consider monitoring trend
TREATMENT ESCALATION PLANNING	Deterioration to severe COVID	 Assess & document individual I Early discussion of patient goals advanced care plans, with patie Early, clear documentation of re treatment escalation plan for <u>al</u> appropriate modalities of respin 5 days post onset of illness re 0-19 can occur rapidly. Pneumon 	s of care, including existing nt and their family/whānau esuscitation decision and <u>I</u> patients, specifically including ratory support quires careful assessment. itis continues to develop in the
	 For pregnant and post-partu If hospitalised for COVID-19, 	week of illness, particularly in old m observations, utilise a maternity- all pregnant women should have r natologists +/- an obstetric physicia	-specific chart (if available) nultidisciplinary assessment by

DISPOSITION DECISION	 Encourage <u>discharge</u> Offer COVID-19 treatment on discharge if meet eligibility criteria 	 Discuss with admission team Admit to hospital if Sa02 <93% Consider discharge if Sa02 ≥93% according to local protocols and availability of acute community COVID-19 care (e.g., primary care or hospital in the home service) Offer COVID-19 treatment on discharge if meet eligibility criteria 	• Admit to hospital • ICU and/or Respiratory review
MONITORING & MARKERS OF	 Risk of deterioration is significantly reduced by vaccination and infection with Omicron variants. Individualised risk assessment should include consideration of vaccination status, day of illness, age, immunocompromise and comorbidities that increase risk of severe disease. Ferritin and d-dimer are suggested as severity/prognosis markers, as part of an overall assessment Monitor for progressive respiratory failure and sepsis, especially after day 5 of illness Only repeat CXR during admission for confirmed COVID-19 for specific clinical indications Perform a chest CT scan only if it would change management, if concern for pulmonary embolism Anticipate complications such as delirium, pulmonary embolism, other thromboembolism, arrhythmias, cardiac impairment, acute kidney injury, sepsis, shock and multi-organ dysfunction, and address using existing standards of care. Also be aware of potential medication complications Repeat baseline investigations periodically in patients who are not clearly improving, in order to detect & manage the above complications 		
MARKERS OF CLINICAL DETERIORATION	 systolic BP > 140mmHg and/or changes or upper abdominal pa Consider repeating laboratory in Appropriateness and frequency an individual basis, accounting features (in discussion with neor Consider steroids for the fetal severe pre-eclampsia as per location of the severe pre-eclampsia as per location. 	pregnancies > 20/40 gestation and diastolic \geq 90, worsening peripher in. Risk of pre-eclampsia is increase nvestigations if there is a deteriorate of foetal heart rate monitoring and for gestational age and clinical seven hatologists, anaesthetists \pm intensive lung maturation, and magnesium socal obstetric guidelines if required for maternal resuscitation	ral oedema, headache, visual ed in COVID-19. tion in maternal condition d ultrasound to be considered on erity. Consider parameters for ve care team) sulphate for neuroprotection or
CLINICAL TRIALS	 As the optimal management of COVID-19 is not yet known, the standard of care is to be offered enrolment in a clinical trial, if available All patients should be screened for eligibility for a locally available COVID-19 clinical trial (e.g., 'REMAP-CAP' and 'ASCOT-ADAPT') 		

COVID-19 Therapeutics: patients not requiring oxygen

The main benefit of these therapeutics is to reduce progression to more severe COVID-19, with a possible small reduction in mortality. The benefit in vaccinated individuals and / or infection with Omicron variant is likely to be restricted to patients at high risk of developing severe COVID-19. The recently expanded **Pharmac access criteria** for antiviral treatments outlines groups who are at higher absolute risk of COVID-19- associated hospitalisation in New Zealand. Within these groups, it is important to recognise that older age (particularly over the age of 75), incomplete vaccination and severe immunocompromise remain the most important risk factors for severe COVID-19. As such, **we recommend offering treatments** (including antivirals) **to patients not requiring oxygen to people who are:**

- 1) Aged 65 years or older
- 2) OR Māori or Pacific aged 50 years or older
- 3) OR other ethnicity aged 50 years or older and have not completed a primary course of vaccination
- 4) OR have any of the following **specific clinical risk scenarios**:
 - a. **immunocompromised**¹ and not expected to reliably mount an adequate immune response to COVID-19 vaccination or SARS-CoV-2 infection, regardless of vaccination status
 - b. Previous critical COVID-19 requiring treatment in Intensive Care
 - c. Down syndrome
 - d. Sickle cell disease
- 5) OR are have at least three risk factors for severe COVID-19 disease²

For these treatments, patients should **not** already have COVID-19 associated pneumonitis requiring oxygen. If a patient requires oxygen for COVID-19, **different therapeutics recommendations** apply.

The definition of **immunocompromise** in PHARMAC access criteria aligns with the eligible population for a **three-dose primary vaccine** series. However, a subgroup of **severely immunocompromised** individuals is at higher risk of severe outcomes, including:

- Solid organ transplant recipient, particularly if within 12 months of transplantation, if requiring more than routine maintenance immunosuppression, treated with mycophenolate mofetil, or treated for rejection within past 12 months
- Within 24 months of haematopoietic stem cell transplant or CAR-T cell therapy.
- Graft-versus-host disease treated with multi-modal immunosuppressive therapy
- Treated B-cell haematologic malignancy (e.g., chronic lymphocytic leukaemia, lymphoma, multiple myeloma) within the past 6 months
- Receipt of anti-CD20 monoclonal antibody therapy (e.g., rituximab) within the past 12 months
- Primary or acquired hypogammaglobulinemia (IgG < 3), even if now on replacement immunoglobulin
- Primary immunodeficiency associated with severe B-cell or combined cellular defects
- Advanced HIV with CD4 <200
- Other conditions (on case-by-case basis) felt to have profound immunocompromise based on combined immunosuppression, functionally equivalent to the above groups

<u>Risk factors</u> are detailed on the Ministry of Health (MOH) website and include obesity, chronic lung disease, chronic kidney disease, heart disease, diabetes, hypertension, chronic liver disease, active malignancy, chronic neurologic disease and severe mental health illness.

MODALITY

PATIENT SUB-GROUPS

RECOMMENDATION

ANTIVIRALS	Adults who meet access criteria <u>AND</u> are within 5 days of symptom onset <u>AND</u> do not have severe hepatic dysfunction (Childs-Pugh class C) <u>AND</u> do not have a potentially serious <u>drug-drug interaction</u> with ritonavir Adults who meet <u>access criteria</u> <u>AND</u> are unable to receive Paxlovid <u>AND</u> are within 7 days of symptom onset <i>Guidance for further prioritisation of</i> <i>remdesivir to patients at highest risk is</i> <i>available</i> here .	Give Paxlovid (nirmatrelvir and ritonavir): ¹ (nirmatrelvir 300mg + ritonavir 100mg) PO q12h for 5 days eGFR 30-59ml/min: nirmatrelvir 150mg + ritonavir 100mg po q12h for 5 days eGFR <30: <i>consider</i>² nirmatrelvir 300mg + ritonavir 100mg po daily on day 1, then nirmatrelvir 150mg + ritonavir 100mg po daily for 4 days Peritoneal or haemodialysis: <i>consider</i>², with dose for eGFR <30 ml/min, but dose after dialysis. Suggested² dosing for weight <40kg here. Use barrier contraception for 7 days after last dose Do not prescribe Paxlovid for 'rebound' COVID-19 ¹ <i>NB Paxlovid prescriber advice available here.</i> Management of <i>common drug interactions highlighted here.</i> ² <i>The NZ Medsafe datasheet currently advises against use of Paxlovid in patients with eGFR <30 due to insufficient data available. Subsequently, dosing for CKD4 and dialysis has been suggested by an Ontario working group.</i> Consider remdesivir: 200mg IV on day 1, then 100mg IV q24h for further 2 days (maximum 3 days total) Limited data of safety in patients with eGFR <30ml/min or peritoneal dialysis.* Use if benefits felt to clearly outweigh potential risks. Likely to be safe in haemodialysis. Do not prescribe remdesivir for 'rebound' COVID-19 	
	Adults who meet <u>access criteria</u> <u>AND</u> are unable to receive Paxlovid <u>AND</u> are unable to receive remdesivir <u>AND</u> are within 5 days of symptom onset	 disease physician or clinical microbiologist[#]: 800mg PO q12h for 5 days Use barrier contraception while taking molnupiravir and for 4 days after last dose Do not prescribe molnupiravir for 'rebound COVID-19' *NB accumulating evidence suggests that molnupiravir 	
	Adults with COVID-19 after day 7 of illness	 treatment is unlikely to benefit vaccinated adults Do not start antivirals Complete course if started earlier in illness 	
	Discuss all severely immunocompromised patients with Infectious Diseases or Microbiology		
	Pregnancy (meeting the same clinical criteria as above)	 Paxlovid may be considered in pregnant or lactating patients on an individual basis if treatment benefits outweigh potential risks Do not use molnupiravir in pregnancy Avoid breastfeeding during and for 4 days after molnupiravir Use remdesivir if >12/40 gestation as per Adult Guideline indications with the same dosing as above Remdesivir is compatible with breastfeeding 	
STEROIDS	Adults without an oxygen requirement, and no other indication for systemic steroids.	Do not prescribe inhaled budesonide	

	Adults without oxygen requirement, but another evidence-based indication for systemic steroids (e.g., asthma/COPD exacerbations)	Steroids as per usual practise
ANTIBODY THERAPY	Adults with any severity of illness	Do not use tixagevimab/cilgavimab (Evusheld) OR casivirimab/imdevimab (Ronapreve) OR sotrovimab due to lack of predicted efficacy against currently circulating SARS-CoV-2 variants. *Guidance about use in specific cases if advised by an expert clinician is available for Ronapreve and Evusheld .

Supportive management: all patients in hospital

MODALITY	PATIENT SUB-GROUPS	RECOMMENDATION	
	All patients	 Switch nebulisers to metered dose inhalers via spacer if possible Monitor closely for worsening hypoxia if elevated work of breathing or respiratory rate 	
RESPIRATORY	SpO ₂ <92% at rest	 Administer dry oxygen (1-4 L/min) via standard nasa prongs Use Hudson mask (5-10 L/min), Venturi device or high flow nasal oxygen (HFNO) if required Aim for SpO₂ 92–96% (88–92% for those at risk of hypercapnic respiratory failure) Encourage use of self-proning 	
SUPPORT	Unable to maintain SpO2 ≥92% on conventional oxygen or high flow nasal oxygen [HFNO] (requiring Fi02 >40%)	 Consider CPAP. Settings should be individualised, but a starting pressure of 8-10cm H₂0 is common Continue HFNO if CPAP unavailable, during meal breaks from CPAP or patient intolerance of CPAP Encourage use of self-proning 	
	Hypercapnic patients with underlying COPD or OHS	Consider BiLevel Non-Invasive Ventilation (NIV) in addition to above	
	 SpO2 target is ≥ 94%; ideally aim for 96-98%. After 20/40 avoid positioning flat on back: use wedge for lateral supine positioning. Left later during resuscitation or if hypotensive. Self-proning may be possible (depending on gestation and habitus). 		
FLUID MANAGEMENT	 Assess for hypovolaemia and correct as required. Avoid excessive resuscitation or 'maintenance' fluids Anticipate and monitor ongoing fluid losses 		
VTE PROPHYLAXIS	 Hospitalised adults with: mild COVID-19 <u>OR</u> severe and critical COVID-19 <u>AND</u> no contra-indication to anticoagulati risk for major bleeding 	 Enoxaparin 40mg SC once daily (standard prophylaxis) Adjust dose for impaired renal function (NB Therapeutic-dose anticoagulation is not beneficial and probably hazardous when initiated prophylactically in severe and critical COVID-19) 	

	Hospitalised adults with moderate COVID-19 <u>AND</u> no contra-indication to anticoagulation e.g., risk for major bleeding (NB moderate = stable adult patient presenting with shortness of breath and/or reduction in resting oxygen saturation while breathing air. Able to maintain oxygen saturation $\geq 92\%$ (or $\geq 90\%$ for patients with chronic lung disease) with up to 4 L/min oxygen via nasal prongs)	 Therapeutic dose anticoagulation should be considered over standard prophylaxis for up to 14 days, or until clinical recovery (discharge or resolved hypoxia) Enoxaparin 1mg/kg SC twice daily (max 150mg BD) Adjust dose for impaired renal function All other patients should receive standard prophylaxis as detailed above
	 Hospitalised pregnant adults with mild OR severe/critical COVID-19 UNLESS: Delivery expected within 24 hours (if only on enoxaparin 40mg SC once daily then 12 hourly) Platelets < 50 Actively bleeding / coagulopathy Severe hypertension (>160/110) 	Enoxaparin 40mg SC once daily (standard prophylaxis) • dose adjustment may be necessary if current weight ≥90kg
	Hospitalised pregnant or postpartum adults with moderate COVID-19 AND no contra-indication to anticoagulation (as above)	Consider therapeutic anticoagulation as for non-pregnant adults (above)
Anticoagulation in pregnancy should be considered for additional risk factors for VTE (discuss with Obstetrics)		
INTENSIVE CARERegular, open and early discussions between ward-based clinicians and local ICU team encouraged. In addition to local referral guidelines, ICU review should be prompted by following: • Significant oxygen requirement (e.g., requiring FiO2 of >40% to maintain SpO2 >92%, CPAP) • Increased work of breathing with impending respiratory failure • Haemodynamically unstable and / or hypotension not responsive to fluid bolus • Rapidly worsening tachypnoea or hypoxaemiaDetailed clinical guidance for ICU care of COVID-19 is beyond the scope of this guideling		CU review should be prompted by the of >40% to maintain $SpO_2 > 92\%$, or needing tory failure ot responsive to fluid bolus
ANTIBIOTIC	Antibiotics should not be used to treat COVID-19 pneumonitis: bacterial co-infection is uncommon.	
THERAPY	Severe/critical COVID-19 especially with any deterioration occurring >7 days post onset and/or >3 days after hospital admission	 Evaluate for secondary infection, including hospital-acquired infection Discuss with local Infectious Diseases / Microbiology team if concern for secondary infection

COMMUNICATION & HOLISTIC CARE	 Encourage for all patients: Clearly communicate typical symptoms and anticipated clinical course with patient, family/whānau or carers Reinforce importance of complying with all Public Health messages When possible, explain risks, benefits and likely outcomes of treatments with patients, family/whānau or carers Use an interpreting service to assist communication if required Facilitate regular clinical updates, and video calls between patient family/whānau or carers Routinely refer to local cultural and/or spiritual support services Consider early involvement of Palliative Care and/ or Liaison Psychiatry services to assist with symptom management, particularly anxiety, dyspnoea and delirium/agitation Ensure appropriate housing, financial and social support is in place prior to discharge (including a working phone). If concerns, refer to social work Ensure Maternity services including lead maternity carer are alerted so wrap-around antenatal and post-natal care can be provided for the mother and baby 		
	Nocturnal CPAP for Obstructive Sleep Apnoea (inpatients)	Consider changing usual vented CPAP mask to a non-vented mask + expiratory port + filter (decision depends on equipment availability and staff expertise)	
THERAPIES FOR EXISTING	 ACE-inhibitors / ARBs Oral contraceptive pill (with or without oestrogen) 	• Usual care (i.e., may be continued in COVID-19 unless otherwise contra-indicated)	
INDICATIONS	• Corticosteroids for asthma/COPD (inhaled or oral, with or without bronchodilators)	 Usual care Do not use a nebuliser unless definite clinical need 	
	Oral menopausal hormone therapy / HRT • Consider stopping until after recovery		
	All pregnancy-related supplements and medications should be continued		
SURGERY	 Deferrals should only occur when surgical outcomes are compromised. Non-urgent surgery should ideally be deferred until after the patient leaves isolation. Refer to local protocols for management of COVID-19 positive patients through surgery. 		
	 Caesarean section (including emergency) shou needed for maternal resuscitation or immediat remain based on obstetric indication 	Id not be deferred if clinically indicated, e.g., if te fetal concern; mode of delivery should otherwise	

COVID-19 Therapeutics: patients **requiring oxygen**

MODALITY	PATIENT SUB-GROUPS	RECOMMENDATION	
	Adults with sustained oxygen requirement	Dexamethasone 6mg* daily PO/IV for 10 days OR until hospital discharge Do not routinely continue after discharge if completed at least 5 days in hospital *consider dexamethasone 12mg PO/IV on day 1 if would qualify for <u>immunomodulation</u> , but medication is unavailable within next 24 hours	
STEROIDS	Pregnancy with sustained oxygen requirement to maintain SpO2 ≥94%	 If steroids needed for fetal lung maturation (usually < 34⁺⁶ weeks): dexamethasone 6mg IM every 12 hours for four doses THEN either prednisone 40mg PO daily, OR hydrocortisone 80mg IV twice daily If steroids <u>not</u> required for fetal lung maturation, use non-fluorinated steroids: prednisone 40mg PO daily OR hydrocortisone 80mg IV twice daily OR methylprednisolone 40mg IV once daily Total duration is 10 days total OR until discharge, whichever is sooner. 	
	Risk of gestational diabetes: monitor blood glucose levels closely and start treatment if elevated.		
	Adults with new sustained oxygen requirement within first 7 days of illness and not requiring mechanical ventilation	 Consider remdesivir (especially if high risk patient) 200mg IV on day 1, then 100mg IV q24h for 2-4 days (maximum 5 days total) If short-lived oxygen requirement without evidence of pneumonitis, suggest 3-day course rather than 5 days 	
ANTIVIRALS	Adults with COVID-19 after day 7 of illness	 Do not start remdesivir Complete course (3 days) if started earlier in illness 	
	Adults with <u>severe</u> <u>immunocompromise</u> with any stage/severity of COVID-19	Discuss with local infectious diseases team	
	Pregnancy (meeting the same clinical criteria as above)	 Use remdesivir if >12/40 gestation as per Adult Guideline indications with the same dosing as above Remdesivir is compatible with breastfeeding 	

	Immunocompromised adults may be eligible for the REMAP-CAP trial convalescent plasma arm	As per trial protocol & randomisation (NB can still be enrolled if prior monoclonal antibody treatment)
ANTIBODY THERAPY	• Adults with any severity of illness	Do not use tixagevimab/cilgavimab (Evusheld) OR casivirimab/imdevimab (Ronapreve) OR sotrovimab due to lack of predicted efficacy against currently circulating SARS-CoV-2 variants. *Guidance about use in specific cases if advised by an expert clinician is available for Ronapreve and Evusheld .
		ds in combination with immune modulation, we der empiric treatment of latent infection, e.g., Hepatitis o have lived in an endemic region)
	Adults with moderate COVID-19 • <u>AND</u> receiving systemic steroids • <u>AND</u> elevated CRP or other evidence of severe systemic inflammation OR clinically deteriorating • <u>AND</u> there is not another active, severe concurrent infection	 Give baricitinib: 4mg PO/NG daily for 14 days or until hospital discharge Reduce to 2mg PO daily if eGFR 30-60mL/min Reduce to 1mg PO daily if eGFR 15-29mL/min* Do not use if eGFR <15mL/min Avoid in pregnancy or breastfeeding Baricitinib is a section 29 product OR tocilizumab: 8mg/kg IV (actual body weight) rounded to nearest 80mg or 200mg vial (max dose 800mg), as a single dose Notes: risk of secondary infection may be increased; CRP response is inhibited, and consequent reduction in CRP does not necessarily correlate with response to treatment *baricitinib 2mg PO every 48 hours is an alternative
IMMUNE MODULATION THERAPY	Adults with severe / critical COVID-19 requiring non-invasive or mechanical ventilation or organ support: • <u>AND</u> receiving systemic steroids • <u>AND</u> there is not another active, severe secondary infection	 Give tocilizumab as above Start as soon as possible if requiring NIV, mechanical ventilation or other organ support OR baricitinib, if tocilizumab is unavailable (as above). If tocilizumab is available and baricitinib commenced earlier in illness, suggest change to tocilizumab Do not treat with both baricitinib and tocilizumab together
	COVID-19 not meeting the criteria above	Do not use immune modulation therapy
	Pregnancy (meeting the same clinical criteria as above)	 Give tocilizumab (same dosing as above): Notes: Tocilizumab crosses the placenta after 28/40, but no evidence of harm to date. Suggest deferring live vaccination (i.e., Rotarix, BCG) up to 6 months in neonates with antenatal exposure. All other vaccinations are safe. Compatible with breastfeeding. May cause raised ALT and thrombocytopenia, mimicking pre-eclampsia / HELLP. Do not use baricitinib (as above)

Discharge Planning and Follow-up

Patients with Suspected, Probable or Confirmed COVID-19 who are being considered for discharge need to have specific decisions made about the following aspects of post-discharge care:

FURTHER INVESTIGATIONS	 Follow-up investigations are not universally required after COVID-19 A repeat chest x-ray in 6-12 weeks to confirm resolution of pulmonary opacities should be arranged for individuals with significant radiographic abnormalities and / or risk factors for lung cancer 		
DISCHARGE DESTINATION	 Anyone with COVID symptoms or suspected infection being discharged before PCR results are available should be tested using a RAT. If the RAT (or a PCR) is negative, the person should be advised to stay home until symptoms resolve and seek a further test if symptoms worsen. Anyone who tests positive (on RAT or PCR) should be able to be discharged home and follow the isolation advice on the advice on the Unite against COVID site. Note that positive RAT results need to be recorded in My COVID Record. The local Medical Officer of Health does not need to be notified of discharge of a positive case. 		
CLEARANCE FROM ISOLATION WITHIN HOSPITAL CARE	 The decision to end isolation within hospital care should be consistent with Public Health policies and local hospital infection prevention and control policies, which may be different. Local hospital isolation policy should be followed until point of discharge 'Rebound' COVID-19 is characterised by recurrence of symptoms and/or a new positive viral test after having tested negative, irrespective of prior antiviral therapy. It occurs within a week of symptom improvement or completion of antiviral treatment. Data informing the approach to 'rebound' COVID-19 is limited, although 'rebound' does not appear to be associated with increased risk of severe COVID-19. It is important that 'rebound' be differentiated from both re-infection (rare within the first 4 weeks of COVID-19 recovery) and persistent SARS-CoV-2 infection (very rare and affects only severely immunocompromised hosts). We suggest clinicians discuss possible 'rebound' COVID-19, and all COVID-19 in severely immunocompromised patients with an infectious disease specialist or clinical microbiologist. Exceptions to this duration may include severe immunocompromise and severe/critical <u>COVID-19</u>. It is advisable to seek the advice of an infectious disease specialist or microbiologist for severely immunocompromised individuals. Additional testing may be useful, such as serial NAAT/PCR testing suggestive of low viral load (i.e. negative or with high cycle threshold), high or increasing antibody levels or repeatedly negative RAT tests. 		
	All patients	 Encourage vaccination if not completed eligible vaccination course (including booster dose[s]). If not completed primary vaccination series before infection, vaccination is recommended from 4 weeks after clinical recovery, even if treated with anti-SARS- 	

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		 CoV-2 antibody therapy (convalescent plasma or monoclonal antibody such as Ronapreve) If completed primary vaccination series before infection, booster vaccination is recommended from 12 weeks after clinical recovery Educate about <u>anticipated gradual recovery from COVID- 19, and potential for persistent symptoms.</u> Encourage those with persistent symptoms after 6 weeks to arrange assessment by their GP.
	Severely immunocompromised	Suggest discuss all patients with infectious diseases or clinical microbiology to clarify duration of isolation (if inpatient) and consider screening for persistent SARS- CoV-2 infection. If <u>eligible for Evusheld</u> and not treated in the past 6 months, suggest discuss timing of administration during discharge process. Further guidance available <u>here</u> .
	Patients with significant respiratory failure (and/or persistent dyspnoea), or other persistent organ dysfunction	Specialist clinic follow-up, investigations and support following discharge (as advised by local specialty services)
	Pregnancy (or recently post- partum)	 VTE prophylaxis - refer to specific guidelines above Recommend follow up growth scan within 2 weeks If possible, delay follow-up CXR until post-partum

Links to other guidelines

- Australian COVID-19 living guidelines: <u>https://covid19evidence.net.au/</u>
- NICE (UK) living guideline: https://www.nice.org.uk/guidance/ng191
- National Institute of Health (USA): <u>https://www.covid19treatmentguidelines.nih.gov/</u>
- WHO COVID-19 living guideline: https://www.who.int/publications/i/item/WHO-2019-nCoV-therapeutics-2022.1
- Ontario COVID-19 Science Advisory Group guideline (Canada): <u>https://covid19-</u> <u>sciencetable.ca/sciencebrief/clinical-practice-guideline-summary-recommended-drugs-and-</u> <u>biologics-in-adult-patients-with-covid-19-version-11-0/</u>