



CORPORATE OFFICE

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5 October 2021

Paul Jones

Email: fyi-request-16754-ec8d79af@requests.fyi.org.nz;

Dear Paul Jones

RE Official Information Act request CDHB 10713

I refer to your email dated 14 September 2021 requesting the following information under the Official Information Act from Canterbury DHB. Specifically:

- 1. The Triaged Protocol used for Covid-19 cases in Hospitals under your district used for assessing patient case severity.
- 2. For each level of severity, provide the treatment protocol given including medicines and dosage prescribed.
- 3. What Antivirals, Immune-Modulators, Anti-inflammatory, Anti-coagulant, and Convalescent plasma's are used along with their Indications.

Canterbury DHB follows the guidance published on the Ministry of Health website (refer to link below) and we also refer to the Middlemore Hospital guidance (please find attached as **Appendix 1**).

 $\frac{https://www.health.govt.nz/our-work/diseases-and-conditions/covid-19-novel-coronavirus/covid-19-information-health-professionals/covid-19-advice-all-health-professionals}{\label{fig:matches}}$

I trust this satisfies your interest in this matter.

Please note that this response, or an edited version of this response, may be published on the Canterbury DHB website after your receipt of this response.

Yours sincerely

Tracey Maisey **Executive Director**

Planning, Funding & Decision Support





Introduction

Initial clinical assessment for potential COVID-19 in all patients should be guided by the <u>Clinical Assessment Tool</u>. Further guidelines on infection control precautions, bed management etc. are also found at the same link.

This guideline has been adapted from the <u>Australian National COVID-19 Clinical Evidence Taskforce</u>, jointly revised by Respiratory and Infectious Diseases, for use at Counties Manukau Health. It refers to ongoing clinical management <u>FOR ADULTS ONLY</u> in the following patient groups:

Confirmed COVID-19	Probable COVID-19		
(SARS-CoV-2 test positive during current illness)	(tested negative, but ID decision to treat as COVID)		

i.e. does not apply to 'Suspected', 'Surveillance', 'Acute respiratory infections' or 'Exposed' groups.

Initial Management

	MILD	MODERATE	SEVERE / CRITICAL		
DEFINITION	No symptoms OR URTI symptoms only OR cough, new myalgia or asthenia without new shortness of breath or reduction in oxygen saturation	Stable adult patient presenting with shortness of breath and/or systemic symptoms or signs. Able to maintain oxygen saturation ≥92% (or ≥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		
BASELINE TESTING & WORK-UP	 Only as clinically indicated. Low value testing is discouraged. 	 FBC, Creat, electrolytes, LFTs, CRP ECG only if specific indication Chest x-ray ABG Investigations for CAP (urinary antigens, sputum PCR panel) if CXR shows focal consolidation. Blood cultures if febrile or shocked d-dimer & ferritin FBC, Creat, electrolytes, LF ECG Chest x-ray ABG Investigations for CAP (urin antigens, sputum PCR panel shows focal consolidation. Blood cultures if febrile or shocked Coag screen, d-dimer, LDH, BNP, Troponin 			
TREATMENT ESCALATION PLANNING	Assess ability to manage in a quarantine (hotel) setting. Consider & document risk factors for severe COVID.	 Early decision & documentation of ceiling of therapy (including respiratory support modalities). Consider & document risk factors for poor COVID outcome. Complete blue resuscitation decision form for <u>all</u> patients. 			
	 NOTE — any new deterioration >7 days post onset of illness requires careful assessment, observation & judgement. Severe COVID-19 frequently develops with a rapid deterioration. 				
DISPOSITION DECISION	Encourage discharge (discuss with JetPark via ID). Liaise with Public Health.	 Admit to Ward 7 under Gen Med. Admit under Respiratory if requiring oxygen >2L/min and/or comorbid respiratory disease. 	 Admit to ICU or Ward 7. Discuss with ICU and/or Respiratory regarding destination. 		
PROBABLE ONLY	Collect serum sample in acute p	phase, repeat ≥2 weeks later, for 'COVID serology'			
MONITORING &	 Monitor for progressive respiratory failure and sepsis, especially on days 5 to 10 after onset of symptoms. Only repeat CXR in people with suspected or confirmed COVID-19 if clinically indicated (e.g. in cases of clinical deterioration or recent intubation). Do not routinely perform CT scanning - only if clinically indicated. 				
MARKERS OF CLINICAL DETERIORATION	 Anticipate complications such as 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 complications from trial drugs, if applicable. Repeat baseline investigations (see above) periodically in patients who are not clearly improving, in order to detect & manage the above complications. 				
NOTIFICATION	 Discuss all cases with ID at the earliest opportunity If not already notified, send e-ref to Auckland Regional Public Health AND notify by telephone (09 623 4600) 				
CLINICAL TRIALS	• All patients should be screened for eligibility for one of two clinical trials currently recruiting at CMH				

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<u>Treatment</u>

NOTE:- the standard-of-care for patients with COVID-19 is to be offered enrolment in one of our clinical trials.

This table indicates which treatment modalities are affected if the patient is enrolled in a trial:

MODALITY	PATIENT SUB-GROUPS	RECOMMENDATION			
^	Adults who do not require oxygen	Do not use steroids to treat COVID-19			
STEROIDS	Adults requiring oxygen and/or ventilatory support to maintain oxygen saturation ≥92%	Dexamethasone 6mg daily IV/PO for up to 10 days <u>or</u> until discharge.			
	Adults with another evidence-based indication for steroids (e.g. asthma/COPD exacerbations)	Steroids as per usual practise.			
70	All patients enrolled in ASCOT-ADAPT trial	As per trial protocol & randomisation (in addition to			
	(anti-viral domain) Adults with mild COVID-19	remdesivir, if indicated below) Do not use remdesivir or any other anti-viral outside of a clinical trial			
ANTI-VIRAL THERAPY	Adults with moderate to severe COVID-19 who do not require ventilation • Note – must have ALT <5 x ULN and/or ALT <3 x ULN and bilirubin <2 x ULN Adults with critical COVID-19 who require	Commence Remdesivir: Contact on-call pharmacist - an access form needs to be completed; stock is held at Auckland Hospital 200mg IV on day 1, then 100mg q24h for a further 4 days (up to 10 days may be considered in selected severe cases) Dose made up in 250mL 0.9% NaCl, infuse over 30-120min Monitor LFTs daily; discuss with ID if eGFR <30 or AKI Do not use remdesivir or any other anti-viral outside of a			
	ventilation (invasive or non-invasive)	clinical trial			
	There are no trials of immune modulation therapies currently recruiting at CMH				
IMMUNE MODULATION THERAPY	Adults with COVID-19: • AND receiving oxygen + steroids • AND CRP ≥75mg/L OR other evidence of severe systemic inflammation • AND there is not another active, severe secondary infection	 Give Tocilizumab: ID will need to apply to Pharmac for a 'rapid NPPA' but the dose can be given prior to this; stock is held at MMH 8mg/kg (actual body weight) rounded to nearest 200mg (max dose 800mg), as a single dose A second dose may be considered 12-24 hours later if the patient's condition has not improved Notes:- cytotoxic precautions are not required if used for COVID-19; risk of secondary infection is significantly increased; CRP response is inhibited. 			
	COVID-19 not meeting the criteria above	Do not use immune modulation therapy			
	All patients enrolled in ASCOT-ADAPT trial (anticoagulation domain)	As per trial protocol & randomisation (in addition to standard VTE prophylaxis below)			
VTE PROPHYLAXIS	Adults with mild COVID-19 plus any additional VTE risk factors <u>OR</u> all cases of moderate to severe/critical COVID-19 <u>AND</u> no contra-indication to anticoagulation e.g. risk for major bleeding	 Enoxaparin 40mg SC once daily Reduce to 20mg if eGFR <30 mL/min/1.73m² NOTE:- Higher dosing strategies, or d-dimer-guided treatment, are not currently supported by the balance of evidence (outside of clinical trials) 			
	Pregnant or postpartum women with any severity of COVID-19	Enoxaparin as above • NOTE:- Discuss dosing & duration with Obstetrics			
ANTIDIOTIC	Mild or moderate COVID-19 without specific evidence of concurrent bacterial infection (which is rare in the first 7 days of illness)	Do not use antibiotics			
ANTIBIOTIC THERAPY (not routinely indicated to treat COVID-19)	Any severity of COVID-19 AND specific evidence of concurrent bacterial infection (e.g. positive culture/antigen, purulent sputum, focal/unilateral consolidation, unilateral pleural effusion, neutrophilia)	Calculate CURB-65 score: • 0-2 = Doxycycline 200mg PO once daily for 5 days • ≥3 = Ceftriaxone 2g IV once daily for 5 days • Review decision/results at 48-72 hours			
	Severe/critical COVID-19, especially with any deterioration occurring >7 days post onset	Discuss with ID (in hospitalised COVID-19 it is common to develop late, severe, secondary bacterial sepsis)			

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FLUID	Use a restrictive fluid management strategy				
MANAGEMENT	• Avoid: 'maintenance' IV fluids, high volume enteral nutrition, and repeated fluid boluses for hypotension.				
	All patients	Switch nebulisers to metered dose inhalers via spacer if possible.			
RESPIRATORY SUPPORT	SpO_2 <92% or significantly below baseline	 Administer dry oxygen (1-4 L/min) via standard nasal prongs Aim for SpO₂ 92–96% (88–92% for those at risk of hypercapnic respiratory failure) Use Hudson mask (5-10 L/min) if higher flow rates required Consider use of self-proning after consulting with Respiratory Physiotherapy 			
NOW.	Unable to maintain SpO2 ≥92% on conventional oxygen at 6 L/min	 Consider High Flow Nasal Oxygen (HFNO) Note that this is a potential aerosol-generating procedure Consider use of self-proning after consulting with Respiratory Physiotherapy 			
,<	Hypercapnic patients with underlying COPD or OHS	 Discuss with Resp about Non-Invasive Ventilation (NIV) Note that this is a potential aerosol-generating procedure 			
ICU CARE	Patients with any of the following signs of deterioration should be discussed with ICU: Increasing oxygen requirement (requiring FiO2 of 0.4 to maintain SpO ₂ >92% on HFNO, or 10-15L/min conventional O ₂ therapy) Increased work of breathing with impending respiratory failure Haemodynamically unstable Rapidly worsening tachypnoea or hypoxaemia Detailed clinical guidelines for ICU care of COVID-19 is beyond the scope of this guideline.				
THERAPIES FOR EXISTING INDICATIONS	 ACE-inhibitors / ARBs Oral contraceptive pill (with or without oestrogen) Antenatal steroids for high risk of preterm bit Corticosteroids for asthma/COPD (inhaled or 	or • Usual care			
	oral, with or without bronchodilators)	Do not use a nebuliser - Consider stanning until often recovery.			
SURGERY	 Oral menopausal hormone therapy / HRT Consider stopping until after recovery Do not routinely perform elective surgery within eight weeks of recovery from COVID-19 infection, unles outweighed by the risk of deferring surgery, such as disease progression or clinical priority. For people undergoing elective surgery following COVID-19 infection, consider carrying out multisystem preoperative assessment in consultation with ID and/or Respiratory. 				
PREGNANCY & PERINATAL CARE	 Out of scope for this local guideline; detailed guidance is included in the <u>Australian COVID-19 guidelines</u> Input from Obstetrics, in discussion with ID and/or other relevant specialties, is essential. 				
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Discharge Planning:

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:

- 1. Further investigations (for Suspected)
- 2. Discharge destination:
 - Suspected cases being discharged before results are available should be notified to the Medical Officer of Health, who may request discharge to a quarantine facility.
 - Most Probable/Confirmed cases who remain in isolation will be discharged to Jet Park.
- 3. Clearance from isolation:
 - Mild cases can be released from isolation after ≥10 days have passed since the onset of symptoms AND there
 has been resolution of the acute symptoms for ≥72 hours.
 - Most hospitalised moderate & severe cases will require a further 10 days of isolation after discharge.
 - Patients with prolonged illness, long hospital stay, or major immunosuppression will require case-by-case review by ID.
 - Note repeat swabs are generally discouraged (but may be requested by ID on a case-by-case basis).
- 4. Appropriate follow-up:

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• Patients who have had significant respiratory failure and/or persistent dyspnoea or hypoxia may require respiratory follow up and support on discharge e.g. pulmonary rehabilitation, short-term oxygen.

All cases should be discussed with ID in advance to individualise the plan.

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