### DHB Office Braemar Campus



Private Bag 18 Nelson, New Zealand

12 April 2022

### Response to a request for official information

Thank you for your request for official information as received 14 March 2022 by Nelson Marlborough Health (NMH)<sup>1</sup>, followed by the necessary extension of time 11 April 2022, where you seek the following information.

 Policies regarding birthing people who test positive for Covid19 and their ability to have a support person of their choosing throughout their labour and birth in your hospitals and birth centres.

#### NMH response:

This response is in regard to the inpatient management of pregnant women, with confirmed or probable COVID-19, who are admitted to Nelson Hospital or Wairau Hospital.

Please see attached NMH Clinical Guideline COVID-19 in pregnancy – Inpatient Management (page 6) which outlines, as part of care in labour, that 'one support person can be present, with appropriate PPE, if current hospital policy allows'.

We can manage mothers who present with a COVID -19 positive test as we have a birth room that is an isolation birth room. One support person can accompany a woman in labour for the duration of labour. The support person is required to wear an N95 mask and remain in their partner's birth room. Meals are provided and the support person would share the en-suite facilities in the room. After the birth the support person would go home.

This response has been provided under the Official Information Act 1982. You have the right to seek an investigation by the Ombudsman of this decision. Information about how to make a complaint is available at <a href="https://www.ombudsman.parliament.nz">www.ombudsman.parliament.nz</a> or free phone 0800 802 602. If you have any questions about this decision please feel free to email our OIA Coordinator OIArequest@nmdhb.govt.nz

<sup>&</sup>lt;sup>1</sup> Nelson Marlborough District Health Board

I trust that this information meets your requirements. NMH, like other agencies across the state sector, supports the open disclosure of information to assist the public's understanding of how we are delivering publicly-funded healthcare. This includes the proactive publication of anonymised Official Information Act responses on our website from 10 working days after they have been released. If you feel that there are good reasons why your response should not be made publicly available, we will be happy to consider.

Yours sincerely

Lexie O'Shea
Chief Executive

Encl: NMH Clinical Guideline COVID-19 in pregnancy – Inpatient Management (7 Pages)

Ctrl + Click link to email feedback: 

ppgadmin@nmdhb.govt.nz

### **COVID-19** in pregnancy – Inpatient Management

#### Purpose / Scope

To guide clinicians in the management of pregnant or postpartum women with <u>confirmed or probable COVID-19</u> who are admitted to hospital. The clinical management of COVID-19 is evolving and flexibility is needed.

#### **General Principles**

- Hospitalised pregnant patients with COVID-19 should be <u>managed the same as non-pregnant patients</u> with a few additional considerations:
  - Maternal risk factors for severe disease:

Unvaccinated

Age >35y

BMI > 30

Late second or third trimester

Pre-existing medical conditions (hypertension, diabetes, lung disease, serious cardiac disease, chronic kidney and liver disease)

Pre-existing compromised immunity (taking immunosuppression)

Socioeconomic deprivation or minority ethnic groups

Smoker

- Need for birth including decisions around:
  - 1. Steroid choice for fetal lung maturation
  - 2. Magnesium sulphate for fetal neuroprotection
  - 3. VTE prophylaxis dose and timing
- Pregnant patients can compensate and maintain normal oxygen saturations until sudden decompensation.
- Interpretation of laboratory results should be based on pregnancy-specific normal ranges.
- COVID-19 infection is associated with increased risk of <u>preeclampsia and HELLP syndrome</u>.
- Monitoring the baby by fetal heart rate monitoring and ultrasound scans should be <u>individualised</u>.
   Consider whether the result of monitoring will change management plans.
- In the clinically deteriorating pregnant patient, the priority should be to <u>stabilise the patient's condition</u>, as
  it is in other maternity emergencies. All hospital staff <u>must prioritise putting on appropriate PPE</u> before
  any patient interaction.
- The decision for emergency delivery should be a <u>multidisciplinary discussion</u> between senior clinicians with the patient and their whanau, and performed either:
  - To facilitate maternal resuscitation (including the need for prone positioning), OR
  - For immediate concerns regarding fetal wellbeing
- Women should be offered the opportunity to enrol in the <u>NZ COVID-19 in Pregnancy Registry</u> co-ordinated through the Liggins Institute at the University of Auckland.

**Date Review** 

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#### **Initial Management**

	MILD	MODERATE	SEVERE / CRITICAL	
DEFINITION	No symptoms; OR URTI symptoms; OR cough, myalgia, fatigue with oxygen sats >94% on room air and NO shortness of breath	Stable patient presenting with shortness of breath, RR>20, or reduction in oxygen saturation on room air.  Can maintain oxygen sats ≥94% with up to 4 L/min oxygen via nasal prongs	Patients meeting <b>any</b> of the following criteria:  • Respiratory rate ≥30/min  • Oxygen saturation <94% on 4L/min oxygen via nasal prongs  • Clinically deteriorating	
BASELINE TESTS	Pulse oximetry  CXR and blood tests unlikely to alter management	FBC, U&E, LFTs, CRP, uric acid Urinary PCR (protein: creatinine ratio) Ferritin Blood & urine cultures if febrile G&H CXR/consideration of bacterial pneumonia if worsening	FBC, U&S, LFTs, CRP, uric acid, coag screen, ferritin, BNP, troponin, d-dimer, G&H Urinary PCR Venous blood gas (consider arterial)  ECG Investigations for pneumonia as per medical team Sepsis bundle if febrile or shocked	
	• If the diagnosis of COVID-19 is highly suspected, but unable to be confirmed by PCR: Collect serum sample in acute phase for COVID-19 serology (and repeat ≥2 weeks later). Discuss confirmatory testing options with Microbiology/ID			
TREATMENT ESCALATION	Assess ability to safely isolate in community.     See COVID-19 Case Management in the Community	<ul> <li>Assess &amp; document maternal risk factors for severe disease</li> <li>Use MEWS chart for observations</li> <li>Admit under Physicians, with early consultation with Obstetrics, Anaesthetists, Midwifery, and Paediatrics</li> </ul>		
PLANNING	NOTE – any new deterioration > 5 days post onset of illness requires careful assessment, observation & judgement. Severe COVID-19 frequently develops with a rapid deterioration			
LOCATION DECISION	<ul> <li>Encourage discharge</li> <li>Liaise with local Public</li> <li>Health Unit and GP</li> </ul>	Liaise with local Public     Multidisciplinary care		
MONITORING	<ul> <li>Frequency and type of fetal heart beat monitoring and ultrasound monitoring should be individualised, depending on gestational age and clinical severity</li> <li>Watch for respiratory failure and secondary sepsis, especially days 5-10 of illness</li> <li>Screen for <u>preeclampsia</u> at each assessment in pregnancies &gt; 20/40 gestation</li> <li>CXR / CPTA can be performed if needed in pregnancy</li> <li>Repeat laboratory investigations as appropriate</li> <li>Anticipate complications such as preeclampsia, delirium, VTE, arrhythmias, cardiac impairment, acute kidney injury, sepsis, multi-organ dysfunction, or medication side effects</li> </ul>			
NOTIFICATION	If not already notified e.g by laboratory, then contact Medical Officer of Health / Public Health Un     Offer opportunity to enrol in NZ COVID-19 in Pregnancy Registry			
CLINICAL TRIALS	enrolment in a clinical t	nent of COVID-19 is not yet known, the crial, if available 19 clinical trials (e.g. 'REMAP-CAP' and		

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Author HOD O&G

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#### **Supportive Management**

MODALITY	PATIENT SUB-GROUPS	RECOMMENDATION	
	All patients	<ul> <li>Switch nebulisers to metered dose inhalers via spacer</li> <li>Monitor closely for worsening hypoxia if increased work of breathing or respiratory rate</li> <li>Never position flat on back; left lateral preferred</li> </ul>	
RESPIRATORY SUPPORT			
	Unable to maintain SpO2 ≥94% on conventional oxygen at 6 L/min via Hudson mask (required Fi02 >36%)	Consider CPAP or High Flow Nasal Oxygen (HFNO) Choice depends on availability, staff expertise, patien tolerance Encourage use of self-proning	
FLUID MANAGEMENT	Assess for hypovolaemia and correct as required     Avoid excessive resuscitation or 'maintenance' fluids     Anticipate and monitor ongoing fluid losses		
	All patients enrolled in ASCOT-ADAPT REMAP-CAP (anticoagulation domain)	• AS DEL LLOS DEDICOLOS	
	Hospitalised pregnant or postpartum adu  mild COVID-19  OR severe and critical COVID-19  UNLESS: Delivery expected within 24 hours Platelets < 50 Active bleeding / coagulopathy Severe hypertension (> 160/110) Other risk factors for obstetric haemorrhe.g. placenta previa	Enoxaparin 40mg SC once daily • Consider increasing dose if weight >90 kg • Adjust dose for impaired renal function	
VTE PROPHYLAXIS	Hospitalised pregnant or postpartum adu with Moderate COVID-19 <u>AND</u> no contra-indication to anticoagulat (as above)	daily (may 150mg BD)	
	VTE prophylaxis as detailed above  VTE prophylaxis should be continued for:  • At least 10 days following discharge from hospital  • Minimum of 6 weeks if the woman is post-partum and has additional risk factors (discuss with Obstetrics) or ongoing morbidity (including limited capacity to exercise in managed isolation)		

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INTENSIVE CARE	ICU review should be prompted by the following: Significant oxygen requirement (e.g. requiring FiO2 of 0.4 to maintain SpO <sub>2</sub> >94%, or needing HFNO or CPAP) Increased work of breathing with impending respiratory failure Rapidly worsening tachypnoea or hypoxaemia Haemodynamically unstable and / or hypotension not responsive to fluid bolus  Consider emergency delivery if required to facilitate maternal resuscitation (including the need for prone positioning), or for immediate concerns regarding fetal wellbeing. This should include a multidisciplinary discussion between senior clinicians and the patient and their whanau.		
	Antibiotics should not be used for treatment of mild or moderate COVID-19. Bacterial co-infection is uncommon.		
ANTIBIOTIC THERAPY	Severe/critical COVID-19 especially with any deterioration occurring 5-10 days after 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	<ul> <li>Clearly communicate typical symptoms and anticipated clinical course with patient, family/whānau or carers</li> <li>Reinforce importance of complying with all Public Health messages, including self-isolation and testing</li> <li>When possible, explain risks, benefits and likely outcomes of treatments with patients, family/whānau or carers</li> <li>Ensure midwifery involvement so wrap-around antenatal and postnatal care can be provided for the mother and baby</li> <li>Use an interpreting service to assist communication if required</li> <li>Facilitate regular clinical updates, and video calls between patient family/whānau or carers</li> <li>Routinely refer to local cultural and/or spiritual support services</li> <li>Consider early involvement of Palliative Care and/ or Liaison Psychiatry services to assist with symptom management, particularly anxiety, dyspnoea and delirium/agitation</li> <li>Ensure appropriate housing, financial and social support is in place prior to discharge (including a working phone)</li> <li>If welfare or cultural support issues identified, liaise with Public Health or Supported Isolation and Quarantine Service, as per COVID-19 Case Management in the Community</li> </ul>		
	Nocturnal CPAP for Obstructive Sleep     Apnoea	Consider changing usual vented CPAP mask to a non-vented mask + expiratory port + filter (decision depends on equipment availability and staff expertise)	
THERAPIES FOR	Oral contraceptive pill (with or without oestrogen)	<ul> <li>Usual care (i.e. may be continued in COVID-19 unless otherwise contra-indicated)</li> </ul>	
EXISTING 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	
	Pregnancy supplements and medications	Continue	
SURGERY	Caesarean Section (elective and emergency) should not be deferred if clinically indicated.     Mode of delivery should remain based on obstetric indications, as per usual care     Elective minor surgery should generally be deferred until at least four weeks, and major surgery until 8-12 weeks, following recovery from COVID-19 if patient outcome is not compromised     Acute surgical procedures that are indicated during active COVID-19 infection should be discussed with ID		

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#### **COVID-19 Therapeutics**

MODALITY	PATIENT SUB-GROUPS	RECOMMENDATION	
	Adults who do not require oxygen	Do not use systemic steroids to treat COVID-19	
STEROIDS	Adults without oxygen requirement, but another evidence-based indication for systemic steroids (e.g. asthma/COPD exacerbations)	Steroids as per usual practise	
	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 not 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.	
Note risk of gestational diabetes: monitor BSLs closely and start GIK (pregnancy  All patients enrolled in ASCOT-  As per trial protocol & randomisation		nitor BSLs closely and start GIK (pregnancy) if elevated.  As per trial protocol & randomisation (in addition to	
ANTI-VIRAL THERAPY	ADAPT trial (anti-viral domain)	remdesivir, if indicated below)	
	Adults with mild COVID-19	Do not use remdesivir     Do not use any other anti-viral outside of a clinical trial	
	Adults within the first 7 days of illness, with moderate COVID-19 • Note – must have ALT <5 x ULN and/or ALT <3 x ULN and bilirubin <2 x ULN	4 days (maximum 5 days total)  • PHARMAC access form to be completed	
	Adults with severe / critical COVID-19 OR moderate illness after day 7 of illness	Do not start remdesivir     Complete course (5 days) if started earlier in illness     Do not use any other anti-viral outside of a clinical trial	
	Adults with severe immunocompromise with any stage/severity of COVID-19	Discuss with infectious diseases team	
IMMUNE MODULATION THERAPY	In patients receiving systemic steroids in combination with immune modulation, we recommend screening for, and consider empiric treatment of latent infection, e.g. Hepatitis I or strongyloidiasis (in patients who have lived in an endemic region)		

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There are no trials of immune modulation therapies currently recruiting in New Zealand		
Adults with moderate COVID-19  • AND receiving systemic steroids • AND elevated CRP or other evidence of severe systemic inflammation OR clinically deteriorating • AND there is not another active, severe concurrent infection  Adults with severe / critical COVID-19: • Within 24h (as soon as possible) of starting HFNO, NIV, mechanical ventilation or organ support • AND receiving systemic steroids • AND there is not another active, severe secondary infection	Give tocilizumab:  • 8mg/kg IV (actual body weight) rounded to nearest 200mg (max dose 800mg), as a single dose  • Notes:— risk of secondary infection may be increased; CRF response is inhibited, and consequent reduction in CRP does not necessarily correlate with response to treatment  • May cause raised ALT and thrombocytopenia, mimicking preeclampsia or HELLP syndrome  • Tocilizumab actively crosses the placenta after 28/40, but no evidence of harm. Neonates should defer live vaccination (ie Rotarix, BCG) for up to 6 months if exposed to tocilizumab (notify paediatricians and LMC). All other vaccinations are safe  • Compatible with breastfeeding	
COVID-19 not meeting the criteria above	Do not use immune modulation therapy	

#### Care in Labour

- One support person can be present, with appropriate PPE, if current hospital policy allows
- IV access with bloods sent for FBC, U&Es, LFT, uric acid, and G&H
- MEWS chart minimum hourly obs (temperature, BP, PR, RR, SaO2)
- · Continuous fetal monitoring
- Analgesia:
- Entonox can be used with a single patient microbiological filter
- Consider early epidural in labour (to lower chance of needing GA)
- Advise that there may be a delay in attendance of emergencies due to PPE requirements
- Consider consent in advance for interventions
- Follow standard practice for active management of third stage, and PPH
- Usual practice for delayed cord clamping
- Can still have skin-to-skin contact but recommend maternal chest and abdomen are wiped beforehand,
   and the mother wears a mask and practises good hand hygiene
- Breastfeeding should be encouraged, and the mother wears a mask and practises good hand hygiene
- Women and their babies should be kept together unless mother or baby need critical care postnatally
  - Note: neonatal transfers to tertiary units likely to proceed as usual

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#### Discharge Planning and Follow-up

FURTHER INVESTIGATIONS	<ul> <li>Fetal growth ultrasound scan in two weeks</li> <li>Other tests as per the medical team</li> </ul>	
DISCHARGE DESTINATION	Suspected or positive cases must be notified to Medical Officer of Health before discharge     Medical Officer of Health / Public Health Service will assess where and for how long the patient needs to isolate. See Nelson-Marlborough Community HealthPathway for <a href="COVID-19 Case">COVID-19 Case</a> Management in the Community	
CLEARANCE FROM ISOLATION	The Medical Officer of Health will authorise release from isolation regardless of whether the patient is at home or in hospital	
FOLLOW-UP	All patients	<ul> <li>Telephone follow-up with GP within 2 weeks</li> <li>VTE prophylaxis organised</li> <li>Ensure LMC aware</li> <li>Referral to Obstetric Clinic</li> <li>Encourage vaccination if not fully vaccinated.         Vaccination is recommended from 4 weeks after clinical recovery. If a patient has received either monoclonal antibodies or convalescent plasma delay vaccination until at least 90 days after treatment.     </li> </ul>
	Patients with significant respiratory symptoms, or other persistent organ dysfunction	Follow-up as per the medical team

#### **Links to Other Guidelines**

- Australian COVID-19 living guidelines: https://covid19evidence.net.au/
- NICE (UK) living guideline: https://www.nice.org.uk/guidance/ng191
- National Institute of Health (USA): https://www.covid19treatmentguidelines.nih.gov/
- WHO COVID-19 living guideline: https://www.who.int/publications/i/item/WHO-2019-nCoV-clinical-2021-1
- Ontario COVID-19 Science Advisory Group guideline (Canada): https://covid19-sciencetable.ca/sciencebrief/clinical-practice-guideline-summary-recommended-drugs-and-biologics-in-adult-patients-with-covid-19-2/
- Australian guidance for Pregnancy and perinatal care: https://covid19evidence.net.au/

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