



COVID-19 Pharmacy Antiviral ServiceJuly 2024

Background to the service

In December 2021 the Ministry of Health (MoH) released the COVID-19 Care in the Community Framework for managing COVID-19 positive patients, their whānau in their communities. The MOH directed District Health Boards to adapt and describe pharmacy service elements of the COVID-19 Case Management in Adults pathway provided through primary care. Hawke's Bay District Health Board, now known as Te Whatu Ora - Health New Zealand, contracted Health Hawke's Bay to deliver services described in this Framework to our community, hence Hawke's Bay's Pharmacy services will be contracted via Health Hawke's Bay. Over time the COVID-19 Care in the Community Framework has been adapted to reflect the progression of the response. As part of the transition to post pandemic business as usual the COVID-19 Care in the Community programme for pharmacy, general practice and urgent care came to an end on 30 June 2024.

This document provides guidance on the Antiviral Community Pharmacy Services which replaces the COVID-19 Care in the Community programme as of 1 July 2024. The only antiviral currently supplied under this service is PaxlovidTM.

In late July 2022 oral antivirals were re-classified as Pharmacist Only (Restricted) Medicines. The process for supplying PaxlovidTM on a prescription or as a pharmacist-only medicine are essentially the same:

- Assess eligibility and symptoms.
- · Clinically review.
- Communicate with prescriber or primary care/ document.
- Counsel the patient.
- Communicate with usual pharmacy.

What are the tools and training required to dispense oral antivirals?

To supply Paxlovid[™] as a Pharmacist Only or Prescription medicine you will need:

	Pharmacist Only (restricted) Medicine	Prescription Medicine
Training	Complete PSNZ COVID-19 Antiviral Medicines	No specific training required.
	Clinical Training Programme and follow this	Follow this operational guide.
	operational guide.	
Clinical tools	Clinical Portal and Primary Care Portal within	Clinical Portal and Primary
available	Clinical Portal	Care Portal within clinical
	ReCare	portal
		ReCare
Communication	AHANZ telehealth practice in New Zealand (see pg. 3 and 4)	
tools and skills	Telehealth Online learning modules from Collaborative Aotearoa	

What is the process for suppling Paxlovid[™]? Assess eligibility criteria

The service schedule only applies to people who meet the Pharmac access criteria for antivirals. The access criteria can be found here.





Assess eligibility symptoms

Nirmatrelvir/ritonavir (PaxlovidTM) is indicated as the first line treatment of acute symptomatic COVID-19 in adults 18 years of age and older, who do not require initiation of supplemental oxygen due to COVID-19. It reduces the risk of hospitalisation for those who have a higher risk of hospitalisation or becoming seriously unwell. Treatment should be initiated as early as possible and within five days of symptom onset.

Confirm the person has ONLY mild to moderate **symptoms** of COVID-19 and is well enough to be managed in the community (see the PSNZ Clinical Decision Pathway for more information).

Clinically review

Check for contraindications

Oral antivirals are not recommended in pregnancy or breastfeeding.

Refer to the PaxlovidTM Medsafe data sheet for a full description of contraindications.

Check the patient's renal function

The dosing of nirmatrelvir is dictated by renal function, therefore you must have a current (preferably within the last 6 months but not older than 12 months) renal function measurement. It is recommended that you use a calculated creatinine clearance if $BMI < 20 kg/m^2$ or $>40 kg/m^2$ or in age over 75 year.

Ways to obtain a renal function result for a patient are:

- Prescribers are asked to include an eGFR (if available) on the prescription.
- Clinical Portal or ReCare.
- Contact the General Practice.
- Contact the Practice's Clinical Pharmacist Facilitator.

Dosing

- eGFR above 60mL/min/1.73m²: **Two** 150mg tablets of nirmatrelvir and one 100mg tablet of ritonavir are to be taken together twice a day for five days.
- eGFR 30 59mL/min/1.73m²: One 150mg tablets of nirmatrelvir and one 100mg tablet of
 ritonavir are to be taken together twice a day for five days. Pharmacists adjusting the dose
 for this purpose may refer to information provided by the supplier, or the tablets may be
 repackaged in a compliance pack.
- eGFR below 30mL/min/1.73m²: Contra-indicated (limited information available), for further information see <u>Clinical Management of COVID-19 in Hospitalised Adults (including in pregnancy)</u> Te Whatu Ora, February 2023 and <u>Antiviral Options for COVID-19 Infection in Chronic Kidney Disease</u> Te Whatu Ora, March 2023.

Assess patient's liver function

There is no dose adjustment necessary in mild to moderate impairment, avoid Paxlovid[™] in severe impairment (Child-Pugh score of C). Almost all patients with severe liver disease will be known to healthcare services. Unless you have a good reason to suspect that the patient may have severe liver disease, supply can still proceed.





Review patient medication history and identify potential drug interactions

Nirmatrelvir is a protease inhibitor, which blocks virus replication. Ritonavir which boosts the levels of nirmatrelvir. The mechanism of action of ritonavir is boosting the levels of nirmatrelvir is by inhibiting CYP3A4. Ritonavir is also an inhibitor of CYP2D6 and P-glycoprotein transporters. Therefore Paxlovid™ unfortunately comes with a large array of drug interactions. It is imperative that all patients are assessed for drug interactions prior to initiating treatment.

The pharmacist will need to review for potential for drug interactions. To do this you will need to ascertain a full list of medications that the patient is taking. Sources may include:

- The patient and/or their whānau.
- General practice.
- The patient's usual pharmacy.
- Clinical Portal. Details on how to access clinical information from Clinical Portal can be
 accessed here. If you do not have access to Clinical Portal please contact the HBDHB System
 Lead for Medicine.
- The Practice's Clinical Pharmacist Facilitator.
- ReCare. Details on how to access clinical information from ReCare can be accessed here.

To assess the risk of interactions:

- Use the University of Liverpool's COVID-19 interaction checker.
- Consult the Ontario Science Brief for specific advice on management of interactions.
- New Zealand Formulary is also a reliable resource but may not be updated as quickly and frequently as the Liverpool and Ontario websites.

Managing identified drug interactions

If an interaction between Paxlovid[™] and the patient's other medicines are identified, the pharmacist needs to have a conversation with the prescriber around managing these interactions options for managing interactions in general can be summarised as:

Avoi	d	Prescribe an alternative, non-interacting medication or stop the target	
		interacting medication temporarily.	
Adju	ıst	Change the dosage or timing of one (or both) of the interacting medications.	
Mor		Monitor clinically (e.g for dizziness or muscle aches) or with investigations (e.g INR,	
		LFTs, BP) and give guidance about possible adverse effects with advice on	
		management.	
No a	iction	Where there is no corrective action or monitoring required for the management	
		of the interaction.	

Communicate with prescriber or other health professionals

Pharmacists will need to contact the prescriber, or the patient's usual GP to resolve issues collaboratively if:

- a prescription is not endorsed,
- a prescribed dose is not the recommended dose for the patient's renal function,
- any interacting medications are identified,
- or any other clinical issues are identified.

Prescribers are asked to provide their contact phone number on the prescription. If you cannot contact the prescriber then you will need to contact the practice.



HEAI HAWKE' TE Oranga o Te Ma

If a patient needs to be referred to another health professional, it is recommended that the ISBAR communication framework is followed, verbally or in written format and that a written record of the referral is kept by the pharmacy.

Counselling the patient

Adverse effects

Common side effects are generally mild and include impaired sense of taste, diarrhoea, vomiting and headache. Less commonly high blood pressure and muscle aches are reported.

Advise patient to contact the prescriber or pharmacy if they experience adverse events or worsening of condition. Pharmacists and prescribers are asked to report any adverse events to the Centre for Adverse Reactions Monitoring (CARM).

Contraception advice

Women should use contraception during and for 7 days after the final dose. The use of ritonavir may reduce the efficacy of combined hormonal contraceptives containing ethinylestradiol - additional contraceptive precautions are advised.

How to take Paxlovid[™]

Treatment must be started within 5 days of first symptoms.

The 5 day course of two medicines contains:

- Nirmatrelvir: 2 (or 1 in renal impairment) pink tablets twice daily. The pharmacist will need to physically adjust the whole-pack for renal impairment for the patient and ensure the instruction label states a renal dose.
- Ritonavir: 1 white tablet twice daily.

Communicate with usual pharmacy

Advise the patient's usual pharmacy that Paxlovid[™] has been dispensed.

Charging the patient

PaxlovidTM is listed as XPharm on the Pharmaceutical Schedule.

• Dispense as an NSS prescription and the ensure the cost is calculated as \$0. There is no charge to the patient.

Claiming

Claiming for service is done via the Halcyon claiming platform: https://hhbportal.karo.nz/. Details on this is available at: COVID-19 Pharmacy form - Health Hawke's Bay (healthhb.co.nz)

Record keeping

The Halcyon form is used for claiming and reporting of services and contains details of the date, and service provided. This information is not stored in the Pharmacy dispensing software. For complete record keeping it is recommended that a detailed note is placed within the Pharmacy dispensing software whenever a service is delivered. **Any discussion with the prescriber and the patient should be documented.**

Obtaining Stock

Stock of Paxlovid[™] is available to be ordered from approved wholesalers (currently <u>ProPharma</u>) using standard processes.





Rebound infection

COVID-19 rebound infection has been associated with the use of antiviral treatments, including Paxlovid[™]. However, it's important to note that a rebound of symptoms can occur in patients with or without antiviral treatment. Current recommendations are that if patients' symptoms return within 28 days from their previous infection, they are not required to repeat a Rapid Antigen Test (RAT) and should stay at home until 24 hours after symptoms resolve. Typically, this rebound infection resolves within 3 to 5 days without any specific treatment.

If the patient has already been treated with antivirals such as PaxlovidTM, **further antiviral treatment should not be provided**. There is no evidence to suggest that repeat treatment provides any additional benefit, as rebound symptoms are usually mild and require only supportive treatments.

Tools available:

- PSNZ Covid-19 Antiviral Clinical Training Programme
- He ako hiringa Treating COVID-19 with Paxlovid in primary care
- <u>Christchurch medicines information service: Drug interactions with nirmatrelvir with</u> ritonavir
- Pharmac access criteria for oral COVID-19 treatments
- Pharmac COVID-19 antiviral access criteria flow chart
- PaxlovidTM data sheet
- NZF Paxlovid PIL
- Health Navigator Paxlovid™ information sheet in several languages
- Interaction checker: Liverpool website
- ISBAR communication framework between health care workers
- Patient fact sheet: COVID-19 Seeking medical help when and how
- AHANZ telehealth practice in New Zealand (see pg. 3 and 4)
- Positions to make breathing easier
- <u>COVID-19</u>: <u>Advice for all health professionals | Ministry of Health NZ</u> (includes advice around advanced prescriptions)

References:

- Pharmac. Updated access criteria for antiviral COVID-19 treatments. <u>Updated Access Criteria for antiviral COVID-19 treatments Pharmac | New Zealand Government</u>. Accessed July 2024.
- He Ako Hiringa. Treating COVID-19 with Paxlovid in primary care. <u>Treating COVID-19 with Paxlovid in primary care | He Ako Hiringa</u>. Accessed July 2024.
- Nirmatrelvir with ritonavir. New Zealand Formulary. NZF v145 01 Jul 2024. <u>nirmatrelvir with ritonavir New Zealand Formulary (nzf.org.nz)</u>. Accessed 22 July 2024.
- New Zealand Ministry of Health. Medsafe data sheet (Paxlovid). <u>Data Sheet Template (medsafe.govt.nz)</u>. Accessed July 2024
- New Zealand Ministry of Health. Guidance on community use of oral COVID-19 antivirals. 1 July 2024. <u>Guidance-on-community-use-of-oral-COVID-19-antivirals.pdf (tewhatuora.govt.nz)</u>. Accessed July 2024.
- PSNZ Covid-19 Antiviral Clinical Training Programme. https://learn.psnz.org.nz/totara/program/view.php?id=133. Accessed Aug 2023.

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