

Couchiching Ontario Heath Team COVID-19 Anti-Viral Eligibility- Prescriber/Pharmacist Communication Form

| PATIENT INFO Last name: Address: | ORMATION: | First name: | | | | |
|--|--|---|--|--|--|--|
| Phone Number: DOB: | | nder: Health Card with Version Code: | | | | |
| Height (cm): Weight (kg): Creatinine: Date: eGFR: Date: | | PRESCRIBING PHYSICIAN: Please attach a copy of the patient's current medication list prescription, non-prescription, over the counter and herbal medications with this form completed. Brief medical history and relevant clinical concerns (where applicable, documentation can be attached) I confirm this information is provided in attached documents (if not, provided below) | | | | |
| ☐ Informed consent obtained (product monograph will be provided by the pharmacy) | | | | | | |
| Note: For patients with mild COVID 19 with confirmed COVID 19. These products are available for use under an interim authorization (Interim order) by Health Canada to prevent the progression of mild to moderate COVID 19 in adult patients 18 and up who are at high risk for progression to severe COVID 19, including hospitalization or death. | | | | | | |
| Criteria for use: All fields must be completed to be eligible for treatment for Paxlovid (nirmatrelvir/ritonavir) | | | | | | |
| Date of symposite Date of posite Pregnant: AND at least one contact. | ive COVID 19 tesi yes riteria below- (p | :: no | Select type: ID | thin 5 days of symptom onset) NOW RAT PCR rcle on form which applies) | | |
| AGE | | NUMBER OF VACCINE DOSES | | RISK FACTORS | | |
| (years) | 0 doses | 1 or 2 doses | 3 doses | Obesity (BMI ≥30 kg/m²) | | |
| <20¹ 20 to 39 | Higher risk if ≥3 risk fact Higher risk if ≥3 risk fact | | Standard risk ¹ Standard risk | Diabetes Heart disease, hypertension, congestive heart failure | | |
| 40 to 69 | Higher risk if ≥1 risk fact | | Standard risk | Chronic respiratory disease, including cystic fibrosis Cerebral palsy | | |
| ≥70 Immunocompromised² individuals of any age | Higher risk Higher risk: Therapeutics should | Higher risk if ≥1 risk factors always be recommended for immunocompromised indivition or SARS-CoV-2 infection due to their underlying imm | | Intellectual disability Sickle cell disease Moderate or severe kidney disease (eGFR <60 mL/min) Moderate or severe liver disease (e.g., Child Pugh | | |

Class B

Higher risk

Evidence for the safety and efficacy of sotrovimab and nirmatrelvir/ritonavir (Paxlovid) in children <18 years of age is limited. While early evidence on risk factors for moderate and severe COVID-19 in children is emerging, the ability to reliably predict disease progression in children remains very limited, and the frequency of progression is rare. While not routinely recommended in children <18 years of age, the use of these agents may be considered in exceptional circumstances (e.g., severe immunocompromise and/or multiple risk factors, clinical progression) on a case-by-case basis. Multidisciplinary consultation with infectious Diseases (and the team primaryli responsible for the child's care is recommended to review the individual consideration of these medications.

2. Examples of immunocompromised or immunosuppressed individuals include receipt of treatment for solid utmors and hematologic malignancies (including individuals with hipph-dose regime monitored without active treatment), receipt of solid-organ transplant and taking immunosuppressive therapy, receipt of chimeric antigen receptor (CAR)-T-cell or hematopoleit stem cell transplant (within 2 years of transplantation or taking immunosuppressive therapy, moderate or severe primary immunodeficiency, (e.g., 20 Georges syndrome, byte of transplantation or taking immunosuppression therapy), moderate or severe primary immunodeficiency (e.g., 20 Georges syndrome, byte of transplantation or taking immunosuppression therapy), moderate or severe primary immunodeficiency (e.g., 20 Georges syndrome, byte elections, coords syndrome,

* NOT recommended if eGFR <30ml/min OR with severe hepatic impairment (Child-Pugh Class C)

| —————————————————————————————————————— | | | | |
|--|---|--|--|--|
| eGFR | PAXLOVID Dose | | | |
| >60mL/min (normal renal function or mild renal impairment) | 300mg Nirmatrelvir (two tablets of 150mg each) with 100mg Ritonavir (one tablet of 100mg) taken together twice daily for 5 days | | | |
| >30 to <60mL/min (moderate renal impairment) | 150mg Nirmatrelvir (one tablet of 150mg) with 100mg of Ritonavir (one tablet | | | |
| 20 to Coome, min (moderate renai impairment) | of 100mg), taken together twice daily for 5 days | | | |

| RESCRIBER ATTESTATION (Must be checked to be eligible for treatment) | | | | | |
|--|--|--|-----------|--|--|
| ☐ Drug/Drug interactions reviewed | | ☐ Patient is eligible | | ☐ Patient is NOT eligible | |
| Prescriber name: | | Direct contact number (not office line): | | | |
| Signature: | | | Billing#: | | |
| | | | CPSO#: | | |
| | | | Date/Tim | ne: | |
| | | | ☐ Preso | cription completed and sent with this tool | |

What drug interactions should I consider before prescribing nirmatrelvir/ritonavir?

- Ritonavir is a potent inhibitor of CYP3A4 isoenzyme and various drug transporters (e.g., P-glycoprotein).
 - Onset of ritonavir inhibition is rapid and takes a few days to dissipate after completion of therapy.
- Ritonavir and nirmatrelvir are both CYP3A4 substrates.
- Nirmatrelvir/ritonavir is contraindicated in patients taking drugs that are:
 - Highly metabolized by CYP3A4 where elevated concentrations can be life-threatening.
 - Potent CYP3A4 inducers which may reduce the effectiveness of nirmatrelvir/ritonavir and contribute to the development of drug resistance.

What if my patient is taking therapy for human immunodeficiency virus (HIV)?

Patients taking ritonavir or cobicistat for HIV therapy should continue their complete antiretroviral regimen at usual dosing while taking nirmatrelvir/ritonavir.

Nirmatrelvir/ritonavir has many drug interactions. See page 3

What if my patient is taking a drug that interacts with nirmatrelvir/ritonavir?

- If the patient is taking or has taken a CYP3A4 enzyme inducer in the last 14 days (e.g., certain anticonvulsants, antineoplastics, a rifamycin, St. John's wort): Do NOT prescribe nirmatrelvir/ritonavir.
- ▲ If the patient takes an interacting drug with a long plasma half-life and narrow therapeutic window (e.g., certain antiarrhythmics, antipsychotics, antineoplastics), the interacting drug will persist in the body after the last dose and may still interact with nirmatrelvir/ritonavir: Do NOT prescribe nirmatrelvir/ritonavir even if the interacting drug can be held.
- If the patient takes an interacting drug that can be held, hold the drug starting the first day of nirmatrelvir/ritonavir therapy, and resume 2 days after the last dose of nirmatrelvir/ritonavir treatment.
- A specialist prescriber or pharmacist may be able to help adjust the dose or dosing interval, replace the drug with an alternative agent, manage side effects, and guide therapeutic drug monitoring.

Nirmatrelvir/Ritonavir (Paxlovid) Drug Interactions:

This is not an exhaustive list. Consultation with a pharmacist who can obtain a complete medication, recreational, and natural health product history from the patient is recommended prior to prescribing nirmatrelvir/ritonavir.

| Symbol | Severity | Recommendation | Rationale | | |
|---|---|---|--|--|--|
| A | Contraindicated (use within past 14 days) | Use alternative COVID agent. Do not use nirmatrelvir/ritonavir. | Stopping the drug will not mitigate the interaction (e.g., prolonged half-life, narrow therapeutic index, prolonged enzyme-inducing effects which may decrease effectiveness of nirmatrelvir/ritonavir). Do not coadminister due to risk of serious toxicity. | | |
| • | Do not coadminister | Hold and restart 2 days after completing nirmatrelvir/ritonavir. | Significant \uparrow in drug concentrations expected. Do not coadminister due to risk of serious toxicity. | | |
| • | Caution | Therapy modification required (see Appendix). | Significant \uparrow/\downarrow in drug concentrations expected, which may lead to serious toxicity or impaired efficacy. Only coadminister if the interacting drug can be safely held or dose-adjusted and closely monitored (see Appendix). Expert consultation may be useful. | | |
| ~ | Drug interaction not likely to be clinically relevant | Continue with standard dosing. | Although mentioned in the monograph, clinically relevant interaction is not anticipated (e.g., minimal impact on certain metabolic pathways, wide therapeutic index, and short course of nirmatrelvir/ritonavir). | | |
| Alfuzo Alpraz Amiod Amiod Amiod Amiod Apalut Apixal Aripip Atorva Atovad Bosen Bosen Bosen Brexp Budes Bupro Buspin Carba Ceritir Cisapr Citalop Clonaz Clopid Cloraz | iptyline dipine (Norvasc) tamide (Erleada) ban (Eliquis) razole (Abilify), oral astatin (Lipitor) quone atan (Tracleer) inib (Bosulif) iprazole (Rexulti) sonide opion rone (Buspar) mazepine (Tegretol) nib (Zykadia) ride pram nromycin pramine zepam dogrel (Plavix) | ✓ Divalproex ● Dofetilide ✓ Dronabinol ▲ Dronedarone (Multaq) ◆ Edoxaban (Lixiana) ◆ Elagolix (Orilissa) ◆ Encorafenib (Braftovi) ▲ Enzalutamide ● Ergot alkaloids (e.g., dihydroergotamine, ergonovine) ▲ Eslicarbazepine ✓ Ethinyl estradiol ● Everolimus (Certican) ◆ Felodipine ▲ Fentanyl (Duragesic) ▲ Flucaetine ◆ Flurazepam ✓ Fluvoxamine ◆ Fostamatinib (Tavalisse) ✓ Fusidic acid, topical ● Glecaprevir/Pibrentasvir (Maviret) ◆ Hydrocodone ● Ibrutinib (Imbruvica) ✓ Imipramine | ✓ Raltegravir ✓ Venlafaxine | | |
| Cobim | netinib (<i>Cotellic</i>) icine in renal/hepatic | ✓ Itraconazole ✓ Ketoconazole | oral ◆ Ziprasidone (Zeldox) ◆ Risperidone, long-acting ◆ Zolpidem (Sublinox, Ambien) | | |

 Rivaroxaban (Xarelto) Rosuvastatin (Crestor)

Consta)

injection (Risperdal

Salmeterol (Serevent,

Advair)

Sertraline

Sildenafil for ED[†] (Viagra)

▲ Sildenafil for PAH[†] (Revatio)

Zopiclone (Imovane)



https://www.covid19-druginteractions.org/.

Lamotrigine

Lovastatin

Maprotiline

✓ Maraviroc

Lomitapide (Juxtapid)

▲ Lorlatinib (Lorbrena)

▲ Lurasidone (Latuda)

Meperidine (Demerol)

Methamphetamine

impairment

Dabigatran

Digoxin

Cyclosporine (Neoral)

▲ Dabrafenib (Tafinlar)

Dexamethasone, high dose

Diltiazem (Tiazac, Cardizem)

Dasatinib (Sprycel)

Diazepam (Valium)

Nirmatrelvir/ Ritonavir (Paxlovid)





What Prescribers and Pharmacists Need to Know 🤡

Why is nirmatrelvir/ritonavir used to treat COVID-19?

COVID-19 has an initial phase of viral replication and a significant inflammatory response in moderate illness. This inflammation can lead to poor outcomes, including hospitalization, invasive ventilation, and death. However, treatments that target SARS-CoV-2 replication, if administered before the inflammatory phase of COVID-19, can improve outcomes.

Nirmatrelvir works by binding to the SARS-CoV-2 3CL protease, which ultimately causes viral replication to stop. Ritonavir is a potent CYP3A4 inhibitor. It is not active against SARS-CoV-2 but is administered as a "boosting agent" to slow the metabolism of nirmatrelvir, thus increasing concentrations of nirmatrelvir.

Nirmatrelvir/ritonavir is a highly effective outpatient therapy based on available data, but there is uncertainty about effect magnitude in target populations and high certainty for harm with ritonavir if drug interactions are not mitigated.

What is the benefit of nirmatrelvir/ritonavir for COVID-19?

The EPIC-HR study¹ has shown a benefit from treatment of adult outpatients with laboratory-proven SARS-CoV-2 infection who were not on supplemental oxygen and were within 5 days of symptom onset. The study suggests that nirmatrelvir/ritonavir may reduce the risk of hospitalization in these patients by 88%.

Research on nirmatrelvir/ritonavir was done in unvaccinated patients and prior to circulation of the Omicron variant. However, a study suggests that nirmatrelvir/ritonavir retains activity against the Omicron variant in vitro.² The Ontario Science Advisory Table recommends the use of nirmatrelvir/ritonavir in COVID-19 patients who are not on supplemental oxygen but are at high

How do I dose nirmatrelvir/ritonavir for treatment of COVID-19?

- Paxlovid consists of 2 drugs packaged together:
 - Nirmatrelvir (pink) 150 mg tablet
 - · Ritonavir (white) 100 mg tablet
- Each carton contains 5 blister cards. One blister card is used each day. The full course of treatment is 5 days.
- Take 2 pink tablets of nirmatrelvir and 1 white tablet of ritonavir (3 tablets total) together at the same time, once in the morning and once in the evening for 5 days (i.e., 6 tablets per day).
 - · Nirmatrelvir/ritonavir may be taken with or without food.

Special Dosing Considerations:

eGFR[†] 30 to 59 mL/min:

The dose is 1 each of nirmatrelvir 150 mg and ritonavir 100 mg, with both tablets taken together orally BID x 5 days.

eGFR[†]<30 mL/min:

Nirmatrelvir/ritonavir is not recommended.

Severe hepatic impairment (Child-Pugh Class C): Nirmatrelvir/ritonavir is not recommended.

What side effects should I be aware of?

Common side effects of nirmatrelvir/ritonavir are generally mild and can include dysgeusia (taste disturbance), diarrhea, hypertension, myalgia, vomiting and headache.

Not many people have taken this drug, and it is still being studied - so it is possible that all the side effects are not yet known, or that rare, but serious side effects may happen.

Click here for the Paxlovid product monograph



Or visit:

https://covid-vaccine.canada.ca/info/pdf/ paxlovid-pm-en.pdf