Taking Rapid Action: Diverse Engagement to Support a Community

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Disclosures and Financial Support

 British Columbia's Ministry of Health's Pharmaceutical, Laboratory and Blood Services Division provides Island Health funding for the purpose of delivering the BC Provincial Academic Detailing Service.

I have no other conflict of interests.

pad Background

- Health Canada approved Paxlovid[™] (nirmatrelvir/ritonavir) on January 17 2022, to **reduce hospitalizations due to COVID-19** in high-risk populations and just prior to the publication of the EPIC-HR trial on February 16, 2022.
- British Columbia quickly received Paxlovid doses and required urgent educational sessions for clinicians to ensure safe and appropriate use.
- It was determined that the Provincial Academic Detailing (PAD) team had the **expertise on delivering pharmacotherapy information** and the outreach to the clinicians in the province for quick community engagement.





Intervention and Implementation

- The PAD team met frequently through multiple virtual meetings with the BC Ministry of Health (MOH) and the BC COVID Therapeutics Committee (CTC) to develop a 30-minute PowerPoint presentation including eligibility criteria, dosing, drug interactions management, and resources available to clinicians.
- The target audience was physicians, nurse practitioners and pharmacists working in both hospital and primary care practice.
- Education sessions could be booked individually or as a group and were initially booked through a centralized service.



- Materials were developed and Upskilling attended within a week!
- From February 8 to October 2022, 7 out of 12 members of the B.C. academic detailing team conducted 190 education sessions to approximately 2240 participants.
- Sessions were conducted either virtually or in-person
- A formal evaluation process showed that 98% of participants strongly agreed and agreed that the sessions met their learning needs and 95% strongly agreed and agreed that they felt more confident prescribing and making recommendations to support the safe use of Paxlovid.

Text NARCAD1108 to 37607 once to join

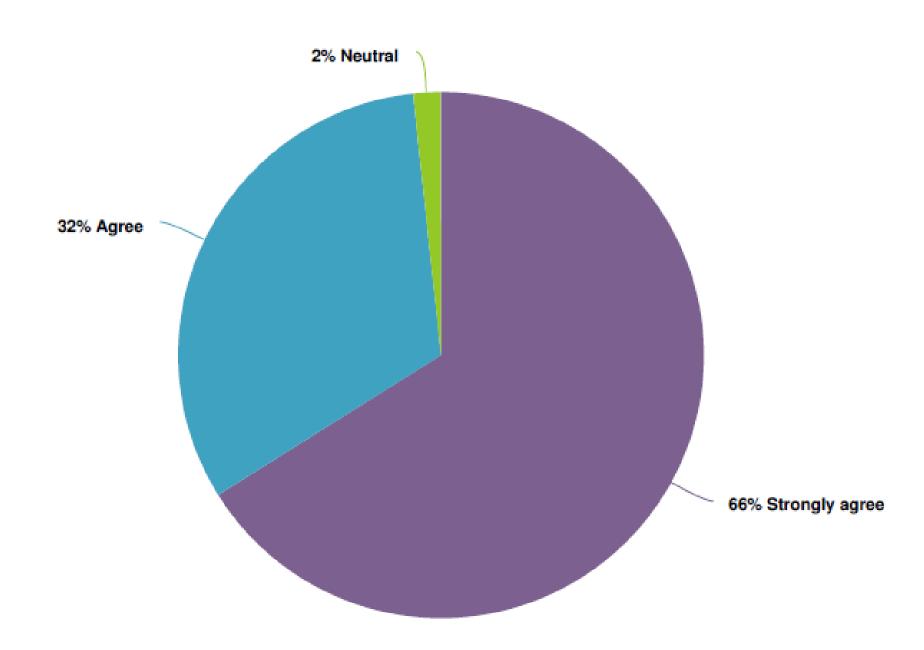
Do you think you could train on the clinical content and develop materials for a detailing topic in a week?

Yes

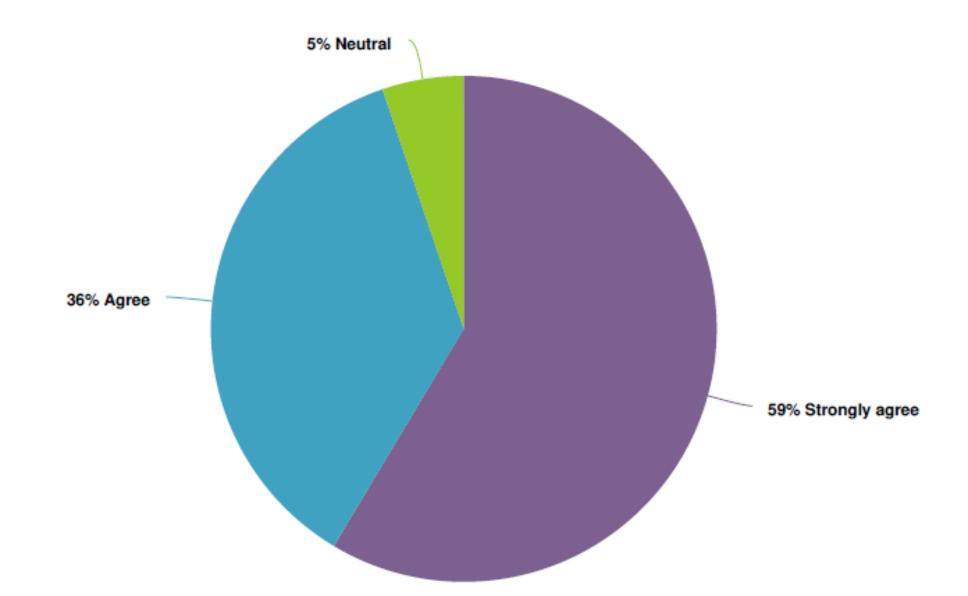
Not likely

No chance!

The session met my learning needs.



I will feel more confident prescribing and/or making recommendations to support the sale and appropriate use of nirmatrelvir/ritonavir for the treatment of mild to moderate COVID-19 in high risk patients.



This learning experience could have been improved by:

Materials available for distribution
Local resources
Weekend support

evidence

Clinical trial review
Comparison to other therapies

Patient scenario and eligibility

Med interaction demo

Discussion

Case Studies

positive

Nothing
Good experience

great



- Participants found the following the most useful:
 - Links
 - Drug interaction checkers
 - Special prescription
 - Comprehensive format and presentation
 - Study details and step-by-step guide on decision making

What did you find most useful?

positive

Resources

Special prescription
Handout
Central documentation of resources

Comprehensive format

Drug interaction examples
Drug interaction checker

Dosing

Eligibility criteria Relevant information Easy to read charts evidence

Critical appraisal of trial
Study details
Guide to decision making
Extra clinical info

easy to comprehend
Opportunity to ask questions
Two-way dialogue

Great presenter

I just think Jennifer is great!
Good experience
Timely
Everything



DRUG-DRUG INTERACTIONS and MANAGEMENT

The following drugs interact with nirmatrelvir/ritonavir. Some and are CONTRAINDICATED (management strategies may be possible. Consult https://www.covid19-druginteractions.org/checker before attempting. Drugs that are listed to interact in the monograph but have limited clinical impact are also included.

Legend:

CI-X: Contraindicated due to serious toxicity. Stopping the drug does not mitigate the interaction due to prolonged halflife, duration of enzyme induction or is not clinically appropriate due to risk or severity of condition

CI-M: Co-administration is contraindicated but management strategies possible (e.g., holding drug or switch)

DDI-M: Significant interaction but management strategies possible by prescriber or with expert consultation, or monitor

OK: Interaction listed in the monograph, but the interaction has low clinical relevance

David Interaction Type Information and Management Ct.

TI: Therapeutic Index; T1/2: Half-life; AUC: Area Under Curve (cumulative drug exposure); ↑: Increase; ↓: Decrease

Drug	Drug in	Drug Interaction Type, Information and Management Strategy				
Amitriptyline OK Sr		Small \uparrow in amitriptyline levels. Likely sub-clinical. Caution those sensitive to ADRs				
Amlodipine	DDI-M	↑'ed AUC by 2X. If BP <130, ↓ dose by 50% during treatment and restart 3 days after finishing				
Apalutamide	CI-X	Oral cancer agent. ↑'ed levels leading to seizures. Also an enzyme inducer				
Apixaban	CI-M	↑'ed levels of apixaban leading to ↑ bleeding. Can consider switch to dabigatran. *See notes				

pad Drug-

Drug-Drug Interactions – Examples

Example	Strategy	Specifics			
Zopiclone	Monitor for adverse effects	May increase zopiclone levels. Patient may experience enhanced sedative effects for up to 3 days after nirmatrelvir/ritonavir is stopped. Dosage reduction could be considered.			
Methadone	Monitor for loss of effect	Potential decreases in methadone concentration. Monitor closely for withdrawal effects. Dose adjustment may be necessary. Consult with OUD expert.			
Amlodipine	Decrease the dose	Expected 2 fold increase in amlodipine concentrations. Reduce dose by 50%. Effect last up to 3 days after nirmatrelvir/ritonavir is stopped.			
Atorvastatin	Stopping or holding	Co-administration may increase atorvastatin levels. Given short duration of nirmatrelvir/ritonavir therapy, hold statin temporarily. Restart 3 days after last dose of nirmatrelvir/ritonavir.			
Apixaban, rivaroxaban	Switching to a non- interacting drug	Expected increase in DOAC concentrations and increased risk of bleeding. Need to consider indication for anticoagulation. Switching to dabigatran for the duration of treatment may be an option. Liverpool COVID-19 Interactions (covid19-druginteractions.org)			



Fillable PDF (on Special Authority website):

Nirmatrelvir/ritonavir (Paxlovid) 5-day Treatment Pack Prescription

PHSA eForms:

BC eHealth Apps (phsaehealth.ca)





Prescription – fillable PDF



HIGH PRIORITY

nirmatrelvir/ritonavir (Paxlovid®) 5-day Treatment Pack Prescription

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IENT INFO	RMATION		Doman-1 L	ealth Number (DUA)	Date of Birth (VVVV / MM / DDV			
nt Name			Personal Health Number (PHN)		Date of Birth (YYYY / MM / DD)				
ess				City		Postal Code			
e Number	A	lergies							
of Symptom (Onset (YYYY / MM / DD)								
SIBILITY C	RITERIA								
Confir	med COVID-19 AND								
	omatic for five days or less								
Are at	increased risk for disease p	rogression (see T	able below – che	eck ONE box)					
Age	Number of Vaccine Doses/Previous Infection								
	0, AND No previous in			us infection alone		ection + any vaccinat			
Any adult 18-49			xtremely vulnerable (CEV) Group 1, Group 2 and Gr s, OR Not at increased risk		roup 3 (See Toolkit #2 – CEV Definitions) Not at increased risk				
10-49	≥ 3 chronic conditions/co- Indigenous	norbidities, OR							
	Not at increased risk otherwise								
50-69	Any individual			ions/co-morbidities, OR					
			Indigenous Not at increased risk otherwise		Not at increased risk				
70+	Any individual		≥ 1 chronic condit	ions/co-morbidities, OR	≥ 3 chronic conditions/co-morbidities				
		Indigenous			Indigenous Not at increased risk otherwise				
	Lusion criteria (refer to bac		t at increased risk oth	erwise	Not at increased risk o	therwise			
O No	g interactions assessed u serious drug-drug intera eractions identified and ma	ctions identified	d						
Assess SCRIPTION	ment completed by pharm	acist (if applicabl	le) Pharmacist	Name:					
○ eGFR o	greater than or equal to 60	mL/min nirmatre	lvir/ritonavir 300	0/100 mg (Paxlovid) P	O BID x 5 days				
O eGFR	80-59 mL/min nirmatrelvir/	itonavir 150/100	mg (Paxlovid) P	O BID x 5 days					
	nacist to remove 10 tablets								
			nysician Name (Print)		Date Signed	Date Signed			
			SID						
INFORMA				Makin family and the		ion of the the			
macy Name	P	harmacy Fax Number	nber If this fax is received in error, or you have questions for the prescrib please call:			ions for the prescriber,			

Nirmatrelvir/Ritonavir (Paxlovid®) 5-day Treatment Pack Prescription

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Nirmatrelvir/ritonavir (Paxlovid*) is indicated for use in patients 18 years and older with mild/moderate COVID-19 infection who are at risk for disease progression:

- Individuals identified as Clinically Extremely Vulnerable Group 1¹, Group 2², and Group 3³ (CEV 1, CEV 2, and CEV 3), regardless of vaccine status or previous infection. (See Practice Tool 2 CEV Definitions).
- · Unvaccinated individuals without previous infection who are EITHER:
 - o ≥50 years OR
 - have three or more chronic conditions/co-morbidities⁴ (e.g., obesity, diabetes, heart failure, stroke, neurological conditions)
- Individuals ≥ 50 years with 1-2 vaccine doses or previous infection alone, with three or more chronic
 conditions/co-morbidities⁴ (e.g., obesity, diabetes, heart failure, stroke, neurological conditions)
- Individuals aged ≥70 years with 1-2 vaccine doses or previous infection alone, with one or more chronic condition/co-morbidity⁴ (e.g., obesity, diabetes, heart failure, stroke, neurological conditions)
- Individuals ≥ 70 years with three or more chronic conditions/co-morbidities⁴ (e.g., obesity, diabetes, heart failure, stroke, neurological conditions), regardless of vaccine status or previous infection
- · Indigenous individuals (if not captured above) who are EITHER:
 - o unvaccinated without previous infection OR
 - o ≥ 50 years with 1-2 vaccine doses or with previous infection alone OR
 - o ≥ 70 years regardless of vaccine status or previous infection
- CEV Group 1 includes severe immunocompromise e.g., solid organ transplant, stem-cell transplant or CAR-T cell therapy, active treatment for hematological malignancies, B-cell depleting and anti-CD 40 therapy
- ² CEV Group 2 includes moderate immunocompromise e.g., solid tumor cancer treatment, active hematological malignancy, immunosuppressive therapy, primary immunodeficiencies and advanced/untreated HIV
- ¹ CEV Group 3 includes high-risk conditions e.g., cystic fibrosis, severe asthma or severe COPD, diabetes requiring insulin, developmental or intellectual disabilities, rare metabolic or blood disorders and others
- 4 Many additional chronic conditions can be considered. Consult Practice Tool #1 Step by Step Assessment

To be eligible, patient has none of the exclusion criteria listed below:

- History of significant liver disease cirrhosis, active hepatitis (ALT 5x ULN), or severe liver dysfunction (Child-Pugh C)
- · Moderate-severe renal impairment requiring renal replacement therapy or known eGFR less than 30 mL/min
- History of hypersensitivity or other contraindication to any of the components of medication

*Covid Clinical Practice Tools:

http://www.bccdc.ca/health-professionals/clinical-resources/covid-19-care/clinical-care/treatments

As of March 1, 2022, prescriptions can be faxed to community pharmacies. For list of pharmacies that dispense Paxlovid, please see https://www.bcpharmacy.ca/paxlovid

nirmatrelvir/ritonavir (Paxlovid) 5-day Treatment Pack Prescription (gov.bc.ca)





Home > Health > Practitioner & Professional Resources > BC PharmaCare for health professionals > Pharmacies >

Dispensing Paxlovid and monitoring adverse drug events: A guide for B.C. pharmacists

Part 1: Overview, Evidence and Dosing

PAD Special Edition:

Intro to Paxlovid™ (nirmatrelvir/ritonavir)

Part 1: Overview, Evidence & Dosing

Tanya Marshall, PharmD

Clinical Pharmacist, Fraser Health Authority

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This video provides an overview of nirmatrelvir/ritonavir (Paxlovid) and reviews clinical considerations that support treatment

.C. Provincial Academic Detailing (PAD) Service

decisions.

Part 2: Drug Interactions

PAD Special Edition: Intro to Paxlovid™ (nirmatrelvir/ritonavir)

Part 2: Drug Interactions

Tanya Marshall, PharmD Clinical Pharmacist, Fraser Health

PAD@gov.bc.ca

B.C. Provincial Academic Detailing (PAD) Service Updated: June 2022

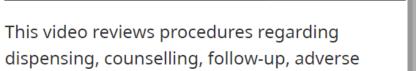
This video reviews drug-drug interactions, drug interaction management strategies and resources for nirmatrelvir/ritonavir (Paxlovid).

Part 3: Procedure Information for Pharmacists

Nirmatrelvir/ritonavir (Paxlovid™)

Procedure Information for

Pharmacists



reaction reporting and resources for nirmatrelvir/ritonavir (Paxlovid).

pad Conclusions

- Academic detailing teams are well-positioned with the experiences of
 effective communicators, administration support and connections
 to prescribers to respond quickly to deliver education for novel agents.
- The PAD program is continuing to monitor, modify and present as new information becomes available for this topic (currently on version 23 of the PowerPoint presentation!)