

Appendix A: Paxlovid Drug Interactions – Modified from NIH Table¹

Tier 1) Prescribe an alternative COVID-19 therapy for patients who are receiving any of the medications listed.	
Antiarrhythmics	Amiodarone, disopyramide, dofetilide, dronedarone, flecainide, ivabridine, mexiletine, propafenone, quinidine
Antianginal	Ranolazine (if used as an antiarrhythmic)
Anticoagulants (indication: VTE)	<p>Prescribe an alternative COVID-19 therapy. If alternative therapy NOT possible then:</p> <p>Apixaban/rivaroxaban for VTE Treatment (for A.fib/VTE prophylaxis in high risk patients, see Tier 2)</p> <ul style="list-style-type: none"> • Apixaban – if on 5 mg BID: <ul style="list-style-type: none"> ○ Reduce apixaban to 2.5 mg BID (while on Paxlovid + 3 days after = 8 days total) and monitor • Apixaban – if on 2.5 mg BID <ul style="list-style-type: none"> ○ Restart Paxlovid 12 hours after last dose of apixaban ○ Hold apixaban and substitute with <i>enoxaparin</i> 1 mg/kg every 12 hours (<u>wait 12 hours after last dose of apixaban to start enoxaparin</u>) ○ Enoxaparin x 8 days (5 days while on Paxlovid + 3 days after last dose of Paxlovid) ○ Day 9: stop enoxaparin and restart apixaban at the time of the next scheduled dose of enoxaparin. <u>DO NOT ADMINISTER ENOXAPARIN.</u> • Rivaroxaban: <ul style="list-style-type: none"> ○ Wait to start Paxlovid 24 hours after the last dose of rivaroxaban ○ Hold rivaroxaban and substitute with enoxaparin (<u>wait 24 hours after last dose of rivaroxaban to start enoxaparin</u>) <ul style="list-style-type: none"> ▪ Enoxaparin 1 mg/kg every 12 hours x 8 days (5 days while on Paxlovid + 3 days after last dose of Paxlovid) ○ Day 9: stop enoxaparin and restart rivaroxaban at the time of the next scheduled dose of enoxaparin. <u>DO NOT ADMINISTER ENOXAPARIN.</u>
Anti-epileptics	Carbamazepine, phenobarbital/primidone, phenytoin
Antimicrobials	Rifampin, rifapentine
Antiplatelet	Clopidogrel (if within 6 weeks of stenting), ticagrelor, vorapaxar
Antipsychotics	Lurasidone, pimozide, clozapine, lumateperone
Benzodiazepines	Midazolam (oral), triazolam
CFTR modulators (indication: CF)	Orkambi (lumacaftor/ivacaftor)
Ergot derivatives	Dihydroergotamine, ergotamine, methylergonovine
Gout	Colchicine (if taking daily for gout prevention and pt has severe hepatic/renal impairment)
Hepatitis C antivirals	Glecaprevir/pibrentasvir
Immunosuppressants	Cyclosporine, everolimus, sirolimus, tacrolimus, voclosporin
Multikinase inhibitors	<p>Recommend discussing with heme-onc provider and MAB team for holding or interrupting therapy while on Paxlovid</p> <ul style="list-style-type: none"> • Acalabrutinib, bosutinib, cobimetinib, ibrutinib, pazopanib, regorafenib
Opioids	Fentanyl, meperidine
PDE5 Inhibitors (indication: PH)	Sildenafil, tadalafil, vardenafil
Pulmonary HTN	Bosentan, macitentan
Miscellaneous	Apalutamide, flibanserin, ivabradine, lomitapide, tolvaptan, riociguat, St. John's Wort

Tier 2) If the patient is receiving any of these medications, **hold or dose adjust the concomitant medication if clinically appropriate (see individual agents for specific instructions)**. If withholding is not clinically appropriate, use an alternative COVID-19 therapy.

Generally, ritonavir inhibitory effects are no longer present three days after final dose but can be prolonged in elderly and renally impaired pts. Agents with wide therapeutic index/low risk of severe outcome **can be held for 8 days** from first Paxlovid dose, narrow therapeutic **index/high toxicity risk agents may need to be held for 10 days**.

Aldosterone antagonists/ K+-sparing diuretics	Eplerenone – Recommend discussing with provider for holding or alternative therapy while on Paxlovid
Antiarrhythmic	Digoxin – dose can be reduced by 30-50% with monitoring x 8 days
Anticoagulants (indication: atrial fibrillation)	<p>Apixaban/rivaroxaban for Atrial fibrillation</p> <ul style="list-style-type: none"> Rivaroxaban: can hold x 10 days Apixaban: reduce to 2.5 mg BID x 8 days (5 days of Paxlovid + 3 days after last dose of Paxlovid) <ul style="list-style-type: none"> If patient is already on apixaban 2.5 mg BID, can continue on case-by-case basis <p>Apixaban/rivaroxaban for VTE prophylaxis in high risk patients:</p> <ul style="list-style-type: none"> Recommend discussing with provider or pharmacist for holding or enoxaparin as alternative therapy while on Paxlovid
Alpha-1 Antagonists	<p>Alfuzosin, tamsulosin – can hold x 8 days</p> <p>Tamsulosin – can hold x 8 days or consider using tamsulosin 0.4 mg/day or every other day (MAX 0.4 mg/day tamsulosin if coadministered with Paxlovid)</p>
Antimigraine	<p>CGRP Antagonists</p> <ul style="list-style-type: none"> Ubrogapant, rimegepant – hold x 8 days <p>Triptans</p> <ul style="list-style-type: none"> Almotriptan – use 6.25 mg and do not exceed 12.5 mg within 24 hr x 8 days Zolmitriptan – max 5 mg per day x 8 days Eletriptan <ul style="list-style-type: none"> Recommend discussing with provider for holding or alternative therapy while on Paxlovid Sumatriptan, zolmitriptan, and frovatriptan may be acceptable alternatives to eletriptan
Antiplatelet	<p>Clopidogrel – discuss risk of diminished platelet inhibition with provider</p> <p>Cilostazol – reduce dose to 50 mg BID x 8 days</p>
Antipsychotics	<p>Aripiprazole – dose can be reduced by 50% with monitoring x 8 days (<i>*dose reduction not recommended when used as adjunctive therapy for major depressive disorder</i>)</p> <p>Brexipiprazole – dose can be reduced by 50% with monitoring x 8 days</p> <p>Quetiapine – dose can be reduce to one-sixth of original dose with monitoring x 8 days</p>
Benzodiazepines	<p>Alprazolam – dose can be reduced by 50% with monitoring x 8 days</p> <p>Clonazepam, diazepam – Can hold x 8 days or use with caution</p> <ul style="list-style-type: none"> Recommend discussing with provider or pharmacist if lorazepam can be substituted for clonazepam or diazepam if needed.
Calcium Channel Blockers	<p>Amlodipine, felodipine, nifedipine – dose can be reduced by 50% x 8 days</p> <p>Diltiazem, verapamil – use with caution or dose can be reduced by 50% (or dose every other day if ER formulation) if needed x 8 days</p>
Contraceptives (oral combination)	<p>Consider backup non-hormonal contraceptive</p> <p>NOTE: The EUA for ritonavir-boosted nirmatrelvir suggests that individuals who use products containing ethinyl estradiol for contraception should use a backup, non-hormonal contraceptive method because ritonavir-boosted nirmatrelvir has the potential to decrease ethinyl estradiol levels. However, the enzyme-inducing effects are not expected to be clinically significant during 5 days of therapy and would not be expected to decrease contraceptive effectiveness. In addition, ethinyl estradiol is combined with a progestin and exposure would be unchanged or increase with ritonavir which maintains the effectiveness of the oral contraceptive.</p>

CFTR modulators (indication: CF)	<p>Kalydeco:</p> <ul style="list-style-type: none"> Day 1: take 1 tablet (150 mg) in AM Day 2-4: do not take Kalydeco Day 5: take 1 tablet (150 mg) in AM Day 6-8: do not take Kalydeco Day 9: resume Kalydeco 150 mg PO BID <p>Symdeko:</p> <ul style="list-style-type: none"> Day 1: take 1 yellow tablet in AM and skip the light blue (ivacaftor) tablet in PM Day 2-4: do not take Symdeko Day 5: take 1 yellow tablet in AM and skip the light blue (ivacaftor) tablet in PM Day 6-8: do not take Symdeko Day 9: resume normal Symdeko regimen (1 tablet in AM and 1 tablet in PM) <p>Trikafta:</p> <ul style="list-style-type: none"> Day 1: take 2 light orange tablets in AM and skip the light blue (ivacaftor) tablet in PM Day 2-4: do not take Trikafta Day 5: take 2 light orange tablets in AM and skip the light blue (ivacaftor) tablet in PM Day 6-8: do not take Trikafta Day 9: resume normal Trikafta regimen (2 tablets in AM and 1 tablet in PM)
Gout	<p>Colchicine</p> <ul style="list-style-type: none"> if taking PRN and no severe hepatic/renal impairment – Can hold x 10 days if taking daily for gout prevention and no severe hepatic/renal impairment): <ul style="list-style-type: none"> Recommend discussing with provider for holding or alternative therapy while on Paxlovid
JAK inhibitors	<p>Recommend discussing with heme-onc provider or rheumatologist and MAB team for holding or dose reduction of therapy while on Paxlovid</p> <ul style="list-style-type: none"> Fedratinib – reduce dose to 200 mg per day x 8 days then 300 mg per day x 2 weeks then increase to 400 mg per day Ruxolitinib – reduce dose by 50% x 8 days Tofacitinib – reduce total daily dose by 50% x 8 days Upadacitinib – max 15 mg per day x 8 days
Long-acting beta agonists (inhaled)	<p>Salmeterol (Brand names: Serevent, Wixela; Component of Advair Diskus) – Can hold x 8 days; Can consider temporary substitution with non-salmeterol LABA (e.g. formoterol-based [Dulera, Symbicort])</p>
Multikinase inhibitors	<p>Recommend discussing with heme-onc provider and MAB team for holding or dose reduction of therapy while on Paxlovid</p> <ul style="list-style-type: none"> Afatinib, axitinib, cabozantinib, ceritinib, crizotinib, dabrafenib, dasatinib, erlotinib, lapatinib, nilotinib, ponatinib, sunitinib, vemurafenib
Opioids	<p>Codeine, meperidine, tramadol – Can hold x 10 days</p> <ul style="list-style-type: none"> Codeine and tramadol (if co-administration is necessary): consider discussing with provider or pharmacist for alternative therapy while on Paxlovid <p>Oxycodone – dose can be decreased by 75% with monitoring Hydrocodone – dose can be decreased by 50% with monitoring</p>
PDE5 Inhibitors	<p>Avanafil, sildenafil, tadalafil, vardenafil – Can hold x 8 days if used for erectile dysfunction</p>
Statins	<p>Atorvastatin – can hold x 8 days</p> <ul style="list-style-type: none"> If co-administration of atorvastatin is necessary, reduce to atorvastatin 10 mg daily and resume the usual dose 3 days after completing Paxlovid) <p>Lovastatin, rosuvastatin, simvastatin – can hold x 8 days</p>
Miscellaneous	<p>Buspirone – dose can be reduced to max 2.5 mg daily with monitoring x 8 day Saxagliptin – reduce dose to 2.5 mg daily x 8 days Solifenacin – reduce dose to 5 mg daily x 8 days Trazodone – consider dose reduction with monitoring x 8 days Warfarin – careful monitoring of INR</p> <ul style="list-style-type: none"> Consider checking INR on day 3 of Paxlovid and 3 days after Paxlovid