## Ontario COVID-19 Drugs and Biologics Clinical Practice Guidelines Working Group Therapeutic Management of Adult Patients with COVID-19

Recommendations apply to patients >18 years of age. Recommendations are based on the best available data and may change as additional data becomes available. Science Briefs can be found on the Ontario COVID-19 Science Advisory Table website.

## **SEVERITY OF ILLNESS**

RECOMMENDATIONS

Critically III Patients Patients requiring ventilatory and/or circulatory support, including high-flow nasal oxygen, non-invasive ventilation, invasive mechanical ventilation, or ECMO	<ul> <li>Dexamethasone 6 mg PO/IV daily for 10 days (or until discharge if sooner) is recommended.</li> <li>Tocilizumab is recommended for patients who are on recommended doses of dexamethasone therapy (or a dose-equivalent corticosteroid) AND are within 14 days of hospital admission (or within 14 days of a new COVID-19 diagnosis if the infection was nosocomially acquired).</li> <li>In drug shortage situations, a single dose of tocilizumab 400 mg IV or sarilumab 400 mg IV should be used for all eligible patients. A second dose of tocilizumab or sarilumab should not be given to any patient.</li> <li>Baricitinib 4 mg PO/NG daily for 14 days (or until discharge if sooner) may be considered in patients who are on recommended doses of dexamethasone therapy (or a dose-equivalent corticosteroid) or who have a contraindication to corticosteroid treatment. The panel does not recommend combined use of baricitinib and IL-6 inhibitors due to absence of safety and efficacy evidence.</li> </ul>	<ul> <li>Prophylactic dose low mo These patients should not separate indication for this</li> <li><u>Remdesivir</u> is not recomm <u>Remdesivir</u> 200 mg IV on patients requiring high-flo or non-invasive mechanica</li> <li><u>SARS-CoV-2 neutralizing a</u> For symptomatic inpatient for sotrovimab.</li> <li>Bacterial co-infection is ur <u>Do not add empiric antibi</u> suspected. Continue empi basis of microbiology resu</li> </ul>
<b>Moderately Ill Patients</b> Patients newly requiring low-flow supplemental oxygen	<ul> <li>Dexamethasone 6 mg PO/IV daily for 10 days (or until discharge if sooner) is recommended. If patients are discharged with home-based oxygen therapy, dexamethasone 6 mg PO daily until oxygen is no longer required (for a maximum of 10 days) may be considered.</li> <li>Remdesivir 200 mg IV on day 1, then 100 mg IV daily for 4 days is recommended.</li> <li>Therapeutic dose anticoagulation may be considered over prophylactic dose anticoagulation in patients who are felt to be at low risk of bleeding.</li> <li>All other patients should receive prophylactic dose anticoagulation.</li> <li>SARS-CoV-2 neutralizing antibodies are not recommended for moderately ill patients. For symptomatic inpatients with nosocomial infection, see mildly ill recommendations below for sotrovimab.</li> </ul>	<ul> <li>Tocilizumab is recommendefined as a serum CRP of (i.e., increasing oxygen or doses of dexamethasone to 14 days of hospital admission was nosocomially acquired.</li> <li>In drug shortage situator IV should be used for a should not be given to</li> <li>Baricitinib 4 mg PO daily for in patients who are on recorrection or who have not recommend combined efficacy evidence.</li> </ul>
<b>Mildly Ill Patients</b> Patients who do not require new or additional supplemental oxygen from their baseline status	<ul> <li>Sotrovimab 500 mg IV × 1 dose is recommended for mildly ill patients who present within 7 days of symptom onset and meet any one of the following criteria:</li> <li>Symptomatic residents of long-term care facilities, retirement homes, and other congregate care living settings</li> <li>Symptomatic inpatients with nosocomial infection</li> <li>High-risk patients: (a) ≥70 years of age AND have at least one additional risk factor; or (b) ≥50 years of age AND First Nations, Inuit, or Métis, AND have at least one additional risk factor (e.g. obesity (BMI ≥30), dialysis or stage 5 kidney disease (eGFR &lt;15 mL/min/1.73 m²), diabetes, cerebral palsy, intellectual disability of any severity, sickle cell disease, receiving active cancer treatment, solid organ or stem cell transplant recipients)</li> <li>Previous SARS-CoV-2 infection and vaccination status do not need to be considered. Serologic testing does not need to be done.</li> <li>It is recommended that monoclonal antibody therapy be administered to non-hospitalized individuals across Ontario using a hybrid network that includes, but is not limited to, mobile integrated healthcare (MIH) services, community paramedicine (CP), and outpatient infusion clinics.</li> </ul>	<ul> <li>Budesonide 800 mcg inhahigh-risk outpatients (as defined as a second seco</li></ul>

Click here for dosing and pharmacologic considerations for medications approved or under investigation for COVID-19



**tolecular weight or unfractionated heparin is recommended**. **ot receive therapeutic dose anticoagulation** unless they have a his treatment.

**mended** for patients receiving mechanical ventilation. In day 1, then 100 mg IV daily for 4 days **may be considered** in low oxygen (i.e., oxygen by mask, oxygen by high-flow nasal cannula, cal ventilation).

<u>antibodies</u> are not recommended for critically ill patients. nts with nosocomial infection, see mildly ill recommendations below

uncommon in COVID-19 pneumonia at presentation. biotics for bacterial pneumonia unless bacterial infection is strongly piric antibiotics for no more than 5 days, and de-escalate on the sults and clinical judgment.

**nded** for patients who have evidence of systemic inflammation, of 75 mg/L or higher, AND have evidence of disease progression r ventilatory requirements) despite 24-48 hours of recommended e therapy (or a dose-equivalent corticosteroid), AND are within ssion (or within 14 days of a new COVID-19 diagnosis if the infection ed).

ations, a single dose of <u>tocilizumab</u> 400 mg IV or <u>sarilumab</u> 400 mg all eligible patients. A second dose of tocilizumab or sarilumab o any patient.

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naled twice daily for 14 days **may be considered** for symptomatic described under sotrovimab recommendation for mildly ill patients).

laily titrated up to 100 mg PO TID for 15 days **may be considered** for ting within 7 days of symptom onset. This recommendation is based dence of reduction in hospitalization, and the need for outpatient reasonable safety profile during an anticipated spike in COVID-19 n variant. Pharmacist consultation and outpatient provider follow-up significant adverse drug interactions with fluvoxamine.

## CURRENTLY NOT RECOMMENDED

There is insufficient evidence to support the use of the following therapies in the treatment of COVID-19 outside of clinical trials or where other indications would justify its use:

- <u>Colchicine</u>
- Interferon (with or without lopinavir-ritonavir and ribavirin)
- <u>Vitamin D</u>

## RECOMMENDED AGAINST

The following therapies are not recommended for treatment of COVID-19 due to lack of benefit, potential harm, and system implications of overuse:

Antibiotics (azithromycin)

- <u>Casirivimab-imdevimab</u> due to lack of neutralizing activity against the Omicron variant
- Hydroxychloroquine or chloroquine
- <u>lvermectin</u>
- Lopinavir/ritonavir

cient evidence to make a recommendation around anticoagulation for mildly ill patients.

are **not recommended** in mildly ill patients: dexamethasone, remdesivir, tocilizumab, and baricitinib.