Ontario COVID-19 Drugs and Biologics Clinical Practice Guidelines Working Group

Antimicrobial and Immunomodulatory Therapy in Adult Patients with COVID-19





Recommendations in this document apply to patients >18 years of age. Click the medication names in the table to view the associated <u>science briefs</u>.



Recommendations are based on the best available data and may change as additional data becomes available.



Infectious diseases consultation (where available) is recommended before any investigational treatment is offered to a patient with COVID-19 outside of a clinical trial.



Click for <u>dosing and pharmacologic considerations</u> for medications approved or under investigation for management of COVID-19.

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. These patients are usually managed in an intensive care setting.

Moderately III Patients

Patients newly requiring low-flow

patients are usually managed in

supplemental oxygen. These

hospital wards.

RECOMMENDATIONS

- Dexamethasone 6 mg PO/IV daily for 10 days (or until discharge if sooner) is recommended for critically ill patients.
- <u>Tocilizumab</u> is recommended for patients who are critically ill with suspected or confirmed COVID-19, who: are on
 optimal dexamethasone therapy; AND are within 14 days of hospital admission (or within 14 days of a new COVID-19
 diagnosis if nosocomially acquired).
 - In light of ongoing drug shortages, a fixed dose of 400 mg should be used for all eligible patients.
 - In light of ongoing drug shortages, a second dose of tocilizumab should not be given to any patient.
- Remdesivir is not recommended for critically ill patients with COVID-19 receiving mechanical ventilation.
- In patients with suspected or confirmed COVID-19 requiring high-flow oxygen (i.e., oxygen by mask, oxygen by high-flow nasal cannula, or non-invasive ventilation), remdesivir 200 mg IV on day 1, then 100 mg IV daily for 4 days may be considered.
- Bamlanivimab is not recommended outside of clinical trials.
- Dexamethasone 6 mg PO/IV daily for 10 days (or until discharge if soones) compaded for model by ill pa
- Tocilizumab is recommended for patients who are moderated rmed COVIDwho: uspected or AND have ev evidence of systemic inflammation, defined as a CRP 75 mg ce of disease gress vite 24-48 hou (i.e., increasing oxygen or ventilatory requirements) py; AN of optimal de ethasone th are within 14 days of hospital admission (or within 14 s of a new CC -19 diagnosis osocomi acquired).
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 - In light of ongoing drug shortages, cond dose of the zumab should be given to patient.
- Remdesivir 200 mg IV then 100 ke IV daily for 4 ke is recommed and for patients who are moderately ill with suspected or a med a 2-19.
- Bamlanivimab ot recommend utside clinical trials

- Ivermectin: There is insufficient evidence to support the use of ivermectin in the treatment of critically ill patients with COVID-19 outside of clinical trials or where the projection would justify its use. Individuals who require ivermectin for other established non-COVID indications would justify its use. Individuals who require ivermectin for other established non-COVID indications would justify its use. Individuals who require ivermectin for other established non-COVID indications with the project of the
- Vitamin D: There is insufficient evice to support use of vitamin D in the treatment of critically ill patients with COVID-19 outside of part trials. In iduals who are continue using its eye develop COV 9.
- COVIDE convariance the plasma is curred unavailable Canada in critically ill patients and is unavailable outside of trials.
- Integron (with or yout combination of the control o
- Bactic Co-infection and common COVID-19 pneumonia at presentation. **Do not add empiric antibiotics for bacterial pneumonia** unless back and lipid and strongly suspected. Continue empiric antibiotics for no more than 5 days, and de-escales on the basis
- mectin: There is insufficient evidence to support the use of ivermectin in the treatment of moderately ill patients with Comb-19 outside of clinical trials or where other indications would justify its use. Individuals who require ivermectin for other established non-COVID indications may use it if they develop COVID-19.
- Vitamin D: There is insufficient evidence to support the use of vitamin D in the treatment of moderately ill patients with COVID-19 outside of clinical trials. Individuals who are taking vitamin D for other established, non-COVID indications may continue using it if they develop COVID-19.
- COVID-19 convalescent plasma is not recommended outside of clinical trials (unavailable outside of clinical trials).
- Interferon (with or without combination of lopinavir-ritonavir and ribavirin) is not recommended outside of clinical trials.
- Antibacterial therapy is not routinely recommended outside of clinical trials or where other indications would justify its use.

Mildly III Patients

Patients who do not require new or additional supplemental oxygen from their baseline status, intravenous fluids, or other physiological support. These patients are usually managed in an ambulatory/outpatient setting.

- <u>Dexamethasone</u> ot recommend or mildly ill patients.
- Tocilizumab is not impendent side of clinical trials for patients who are mildly ill with suspected or confirmed COVID-19
- Remdesivir is not recommended for patients who are mildly ill patients with suspected or confirmed COVID-19.
- Bamlanivimab is not recommended outside of clinical trials.

- Nermectin: There is insufficient evidence to support the use of ivermectin in the treatment of mildly ill patients with COVID-19 outside of clinical trials or where other indications would justify its use. Individuals who require ivermectin for other established non-COVID indications may use it if they develop COVID-19.
- Vitamin D: There is insufficient evidence to support the use of vitamin D in the treatment of mildly ill patients with COVID-19 outside of clinical trials. Individuals who are taking vitamin D for other established, non-COVID indications may continue using it if they develop COVID-19.
- COVID-19 convalescent plasma is not recommended outside of clinical trials (unavailable outside of clinical trials).
- Interferon (with or without combination of lopinavir-ritonavir and ribavirin) is not recommended outside of clinical trials.
- Antibacterial therapy is not routinely recommended outside of clinical trials or where other indications would justify its use.