SEVERITY OF ILLNESS ANTIVIRAL THERAPY OTHER THERAPEUTICS IMMUNOMODULATORY THERAPY Critically III Patients Remdesivir is **not** recommended outside of approved **Prophylactic-intensity dosing of low molecular weight** Dexamethasone 6 mg IV/SC/PO q24h for up to 10 days is strongly recommended (RECOVERY trial), unless higher doses are clinically indicated.* Hospitalized, ICU-based clinical trials **heparin (LMWH)** is **recommended** for VTE prophylaxis in Hydrocortisone 50 mg IV q6h is recommended as an alternative (REMAP-CAP trial). If dexamethasone and hydrocortisone are not available, patients who do not have suspected or confirmed VTE (or methylprednisolone 32 mg IV q24h or prednisone 40 mg PO daily are recommended. Based on the current scientific evidence and bestother indications for therapeutic anticoagulation). There is Patients requiring respiratory * e.g., asthma exacerbation, refractory septic shock, history of chronic steroid use, obstetric use for fetal lung maturation practice guidelines, the College of Physicians and a high probability of harm when therapeutic anticoagulation support (high-flow oxygen, **Surgeons of BC, the College of Pharmacists of** noninvasive ventilation, mechanical is initiated in patients who have received organ support for BC, the BC College of Nurses and Midwives and **Tocilizumab, Sarilumab OR Baricitinib is recommended** for patients requiring life support due to confirmed COVID-19. This includes highventilation) and/or vasopressor/ greater than 48 hours (n=1074; NIH mpRCT). **Patients** the CTC do not approve of the use of ivermectin flow oxygen support (e.g., Optiflow) if flow rate > 30 L/min and FiO2 > 0.4 OR invasive or non-invasive ventilation OR vasopressor or inotropic receiving therapeutic anticoagulation for COVID-19 inotropic support for either treatment or prophylaxis for COVID-19 support. Tocilizumab, Sarilumab OR Baricitinib must be administered within 24 hours of the initiation of life support measures. While head-to-hear **prior** to organ support should **REMAIN** on therapeutic and BC registrants must not prescribe it for this comparative data are lacking, the magnitude of benefit of both agents appears equivalent. However, more robust data exist to support the use of anticoagulation and continue for up to 14 days or until purpose. Ivermectin should not be used outside of tocilizumab and sarilumab. Baricitinib also carries the additional challenges related to gastric access and cytotoxic precautions. The ultimate choice of hospital discharge. approved clinical trials. agent depends on patient characteristics and practical considerations. Patients receiving baricitinib prior to becoming critically ill may stop baricitinib **Antibiotic therapy is not routinely recommended** for the and be switched to a one-time dose of an IL-6 inhibitor. There is no evidence to co-administer IL-6 inhibitors with baricitinib. treatment of COVID-19 pneumonia. If bacterial co-infection is suspected, follow local practice guidelines for CAP, HAP Tocilizumab 400 mg IV (single dose) OR Sarilumab 400 mg IV (single dose) is recommended (REMAP-CAP, RECOVERY). Patients admitted to and VAP. hospital for more than 14 days with symptoms of COVID-19 should not receive Tocilizumab/Sarilumab for this indication. Tocilizumab/Sarilumab should only be initiated when life support is required because of COVID-19 rather than other causes (such as bacterial infection, pulmonary embolism, **ACE inhibitors** and **ARBs** should not be discontinued solely etc). Tocilizumab or sarilumab should not be combined with baricitinib. OR on the basis of COVID-19 **NSAIDs** should not be discontinued solely on the basis of Baricitinib 4 mg po daily (for GFR \geq 60 mL/min) or 2 mg po daily (for GFR 30-59 mL/min) or 2 mg po every 2nd day (for GFR 15-29 mL/min) COVID-19 up to 14 days, or until discharge from hospital (whichever occurs first) is recommended (COV-BARRIER, RECOVERY). Baricitinib should only be initiated when life support is required because of COVID rather than other causes (such as bacterial infection, pulmonary embolism, etc). Baricitinib should not be administered to patients with neutrophils < 1.0 giga/L, lymphocytes < 0.2 giga/L, ALT or AST > 5 x ULN, or eGFR < 15 mL/min (or receiving renal replacement therapy). Baricitinib should not be combined with tocilizumab or sarilumab. *Limited data exist on baricitinib in pregnancy. Risks and benefits of baricitinib should be discussed on a case by case basis with pregnant women with severe COVID-19 Monoclonal antibodies (mAbs; Bamlanivimab/etesevimab, REGEN-COV, Sotrovimab, Regdanvimab) are not recommended. An RCT of REGEN-COV in this population was halted due to signals of harm. Regdanvimab and REGEN-COV conditions for use state that it may be associated with worse outcomes in the critically ill. RECOVERY showed no benefit in the subgroup that required organ support. Various guidelines (IDSA, NIH, INESSS) recommend against mAbs in this setting. **Colchicine and other biologics (e.g., anakinra)** are **not** recommended outside of approved clinical trials. **Severely III Patients** Dexamethasone 6 mg IV/SC/PO q24h for up to 10 days is strongly recommended (RECOVERY trial), unless higher doses are clinically indicated.* **Remdesivir** has not demonstrated benefit in Hospitalized, ward-based, long-Therapeutic anticoagulation (LMWH preferred) may Hydrocortisone 50 mg IV q6h is recommended as an alternative (REMAP-CAP trial). If dexamethasone and hydrocortisone are not available, **be considered** in patients without high risk features for survival, progression to ventilation or length of term care methylprednisolone 32 mg IV q24h or prednisone 40 mg PO daily are recommended. hospital stay and remains uncertain with respect to serious bleeding* and NOT requiring organ support. If * e.g., asthma exacerbation, refractory septic shock, history of chronic steroid use, obstetric use for fetal lung maturation used, anticoagulation for COVID-19 should start within shortening time to recovery by 5 days. The World Patients requiring supplemental 72 hours of admission and continue for 14 days or until Health Organization (WHO) has issued a conditional oxygen therapy hospital discharge. Patients who decompensate and require **Tocilizumab** is **not** recommended for patients receiving low-flow oxygen support. The RECOVERY trial found a survival benefit of 4% (tocilizumab 29%) recommendation against the use of remdesivir organ support while on therapeutic anticoagulation should vs. usual care 33% 28-day mortality) in patients who had CRP >75 mg/L AND low-flow oxygen, non-invasive respiratory support, or invasive mechanical in patients hospitalized for COVID-19. Further continue on therapeutic anticoagulation. Therapeutic ventilation. However, considering the scarcity of IL-6 blockers in Canada, drug therapy should be prioritized to the persons with both the highest need evaluation in approved clinical trials is strongly anticoagulation was superior to standard of care for and the greatest likelihood of benefiting from the therapy. Combined with outstanding issues in the preliminary findings of the RECOVERY trial (e.g. 17%) encouraged. If remdesivir is used outside of clinical composite 21-day organ support free survival in the of patients randomized to tocilizumab not receiving the drug), the CTC recommends prioritizing tocilizumab use only for critically ill patients at this time, trials, full disclosure of risks and benefits with ATTACC/ACTIV-4a/REMAP-CAP trials. Benefits appear to which is the population shown to benefit in both the REMAP and RECOVERY trials. consideration of patient values and preferences be driven by reducing progression to high-flow oxygen, nonare necessary, as it is not considered standard of invasive ventilation, or vasopressors. There was insufficient Baricitinib 4 mg PO daily (for GFR >60 mL/min), or 2 mg PO daily (for GFR 30-59 mL/min), or 2 mg PO every 2nd day (for GFR 15-29 mL/ care. Furthermore, it should be not be used in certainty on whether therapeutic anticoagulation improves min) up to 14 days**, or until hospital discharge (whichever occurs first) is recommended (COV-BARRIER) for hospitalized COVID-19 patients patients requiring requiring non-invasive or invasive mortality or intubation. Therapeutic anticoagulation mechanical ventilation. requiring supplemental oxygen. Baricitinib should be administered within 24 hours of initiation or change in baseline use of oxygen due to COVID-19 reduces thrombotic events (1.4% vs 2.7%) but may increase pneumonia (not from other causes such as heart failure, pulmonary embolism, etc.). Considerations for use include certainty of COVID-19 as cause major bleeding (1.9% vs 0.9%). of deterioration, clinical progression, evidence of inflammation (e.g. elevated C-reactive protein \geq 50 mg/L, ferritin \geq 1000 µg/L), and potential for *High risk features for bleeding include: age 75 or greater, adverse effects. Baricitinib should not be administered to patients with neutrophils <1.0 109/L, lymphocytes <0.2 109/L, ALT or AST >5 x ULN, GFR Based on the current scientific evidence and besteGFR less than 30 mL/min, any coagulopathy, platelet <15 mL/mmin/1.73 m2, or who have been admitted for more than 14 days with symptoms of COVID-19. Patients who received immunosuppressants practice guidelines, the College of Physicians and count less than 50, use of dual antiplatelet therapy, recent (high-dose corticosteroids, biologics, or JAK inhibitors) before randomization were excluded from the COV-BARRIER trial; if baricitinib is being **Surgeons of BC, the College of Pharmacists of** history of serious GI bleed or recent intracranial condition considered in these patients, risks and benefits should be discussed on a case-by-case basis. (stroke, neurosurgery, aneurysm, cancer), epidural or spinal BC, the BC College of Nurses and Midwives and *Limited data exist on baricitinib in pregnancy. Risks and benefits should be discussed on a case-by-case basis with pregnant patients with severe the CTC do not approve of the use of ivermectin catheter. COVID-19 for either treatment or prophylaxis for COVID-19 **Early baricitinib discontinuation should be considered in patients who have clinically improved and no longer require supplemental oxygen and BC registrants must not prescribe it for this **ACE inhibitors** and **ARBs** should not be discontinued solely **purpose. Ivermectin** should **not** be used outside of on the basis of COVID-19 approved clinical trials. Monoclonal antibody combination REGEN-COV 2.4g (casirivimab 1.2g + imdevimab 1.2g) is NO LONGER recommended due to its lack of neutralization activity against Omicron. Other antibodies are currently being evaluated for this indication. Other mAbs should not be used as a substitute. **NSAIDs** should not be discontinued solely on the basis of Colchicine and biologics (e.g., anakinra) are not recommended outside of approved clinical trials. COVID-19 Mildly-Moderately III Patients See the CTC Clinical Practice Guide and Practice Tool #1: Step-by-Step Assessment for treatment recommendation for ambulatory, LTC and in-patients with mild-moderate COVID-19 with nirmatrelvir/ritonavir, **NOT RECOMMENDED FOR ANY SEVERITY** sotrovimab and remdesivir. Recommendations regarding colchicine, fluvoaxamine and inhaled corticosteroid are also included in within these resources. Discharge **No COVID-19 specific medications are recommended** on discharge (includes corticosteroids and DVT chemoprohylaxis, e.g, LMWH or rivaroxaban; unless indicated for other reasons) Convalescent Plasma, IVIg, chloroquine or Patients with known COVID-19 hydroxycholorquine, lopinavir/ritonavir, interferon IV/ **SC** and **ribavirin** have been evaluated across all disease that have recovered and are discharged from hospital severities and have not been found to be effective against COVID-19 in clinical trials, or high-quality cliical trials are lacking. These agents are **not recommended. Prophylaxis** Based on the current scientific evidence and best-**Bamlanivimab-etesevimab** and **REGEN-COV** are not recommended due to resistance of Omicron to these agents. In general, due to the lack of reliable practice guidelines, the College of Physicians and rapid tests to identify the target population within the prophylaxis window, lack of impact on hospitalization rates or mortality and low generalizability of Asymptomatic patients with Surgeons of BC, the College of Pharmacists of BC, known COVID-19 exposure these studies, administration of any **mAbs**, even if active agaist Omicron, is **not recommended** for postexposure prophylaxis. the BC College of Nurses and Midwives and the CTC do not approve of the use of ivermectin for either treatment or prophylaxis for COVID-19 and BC registrants must not prescribe it for this purpose. **Ivermectin** should **not** be used outside of approved





clinical trials.















