Therapy in Adult Pregnant Patients with COVID-19

ANTIVIRAL THERAPY SEVERITY OF **IMMUNOMODULATORY THERAPY OTHER THERAPIES ILLNESS** Critically III Chloroquine or Prophylactic-dose of LMWH (low Dexamethasone 6mg IV/SC/PO q24 for up to 10 days is recommended. Hospitalized, Hydroxychloroquine molecular weight heparin)* is Alternatives include Hydrocortisone 50mg IV q6h or Methylprednisolone 32mg IV is **NOT** recommended, according to ICII-hased q24h for up to 10 days. weight-based protocol, is recommended Patients requiring recommended. (ATTACC). The The choice of steroid will depend on individual risk factors and family preference, respiratory Lopinavir/ritonavir ongoing use of LMWH should be balancing the needs of the mother against potential fetal risk. The steroid with the support is NOT reviewed with Obstetric and greatest potential for maternal benefit is Dexamethasone (RECOVERY), however as (high-flow recommended Anaesthesia teams, given the oxygen, it has the highest placental transfer, families and care providers may elect an implications for delivery. Remdesivir is NOT noninvasive alternative regimen at bioequivalent dose. recommended ventilation. Only in cases where delivery is predicted in the next 7 days, a short-term course of **Use LMWH pre-filled syringes (multi-dose mechanical outside of approved vials contain benzyl alcohol) higher dose Dexamethasone (6mg IV/SC q12h x 4 doses) may be given to promote ventilation) clinical trials fetal lung maturity in consultation with Obstetric services. and/or Interferon IV/SC is vasopressor/ **NOT** recommended inotropic support Antimicrobials: Ceftriaxone 1-2g Tocilizumab* 8mg/kg IV (single dose; up to maximum 400mg) is recommended IV q24h x 5 days is recommended Ribavirin/Interferon (REMAP-CAP, RECOVERY) and must be administered within 24 hours of the if there is bacterial co-infection (Inhaled) is NOT initiation of organ support. Patients admitted to hospital for more than 14 days recommended Azithromycin 500mg IV q24x 3 with symptoms of COVID-19 should not receive tocilizumab for this indication. outside of approved days is recommended if atypical * Biologic agents cross the placenta to the fetus; there is the possibility that these agents (e.g. Tocilizumab) clinical trials bacterial infection is suspected or may impact neonatal immune function. As such, delay of live attenuated vaccines is sometime in the case of ceftriaxone allergy. recommended, and the current recommendation is for consultation with the BCCH immunization services Ivermectin is NOT for infants born to pregnant persons who received Tocilizumab in the third trimester of pregnancy recommended De-escalate based on microbiology outside of approved There are very limited data on baricitinib in pregnancy and tocilizumab should be results and clinical judgement. clinical trials considered first. If there is no access to an IL-6 inhibitor (due to global shortage), Baricitinib 4mg PO daily can be considered on a case-by-case basis, if the potential for maternal benefit is deemed sufficient to outweigh the potential risk. Care must be taken to convey the experimental nature of this treatment to patients/families. Therapeutic anticoagulation can Severely III Remdesivir has Dexamethasone 6mg IV/SC/PO q24 for up to 10 days is recommended. Hospitalized. be considered in patients not demonstrated Alternatives include Hydrocortisone 50mg IV q6h or Methylprednisolone 32mg IV ward-based predicted to be at low risk of benefit in survival. g24h for up to 10 days. needing delivery within 24h or Patients requiring progression to without high-risk features for The choice of steroid will depend on individual risk factors and family preference, supplemental ventilation or serious bleeding. Compared to balancing the needs of the mother against potential fetal risk. The steroid with the oxygen therapy length of hospital standard of care, in non-pregnant greatest potential for maternal benefit is Dexamethasone (RECOVERY), however as stay. Therefore, adults, the addition of therapeutic it has the highest placental transfer, families and care providers may elect an while trials anticoagulation was associated alternative regimen at bioequivalent dose. evaluating this with improved 21-day organ therapy are Only in cases where delivery is predicted in the next 7 days, a short-term course of support-free survival ongoing, it is NOT higher dose Dexamethasone (6mg IV/SC q12h x 4 doses) may be given to promote (ATTACC/ACTIV-4a/REMAP-CAP). recommended in fetal lung maturity in consultation with Obstetric services. pregnant women. Pregnancy is a hypercoagulable state; pregnancy should not Tocilizumab/Sarilumab is NOT recommended for patients receiving low-flow oxygen preclude this therapy in an Chloroquine/ support. The RECOVERY trial found a survival benefit of 4% (tocilizumab 29% vs. usual individual who would benefit. Hydroxychloroquine care 33% in 28-day mortality) in patients who had CRP >75 mg/L AND low-flow oxygen, & Lopinavir/ However, given the risk if urgent non-invasive respiratory support, or invasive mechanical ventilation. However, due to delivery is needed (including need Ritonavir and the scarcity of IL-6 blockers in Canada, therapy should be prioritized to the persons with to escalate care to the ICU), the Interferon IV/SC the greatest likelihood of benefit. decision to initiate therapeutic are NOT Passive Immunotherapies (Convalescent Plasma/IVIG/Monoclonal anticoagulation should include recommended antibodies/Antibody cocktail therapies (Regn-COV2, Bamlanivimab), Colchicine and Obstetric services. LMWH is Ribavirin/Interferon biologics (Anakinra) are NOT recommended outside of approved clinical trials preferred - in cases of imminent (Inhaled) and delivery, unfractionated heparin Ivermectin are NOT may be used instead. recommended outside of approved **Use LMWH pre-filled syringes (multi-dose clinical trials vials contain benzyl alcohol)

Mildly III

Ambulatory, outpatient

Patients who do not require supplemental oxygen, intravenous fluids, or other support Chloroquine, Hydroxychloroquine Lopinavir/ritonavir and Interferon IV/SC are NOT recommended

Ribavirin/Interferon (Inhaled) and Ivermectin are NOT recommended outside of approved clinical trials Inhaled budesonide has not been shown to be beneficial in adults less than 50 years old and is NOT recommended.

Colchicine is NOT recommended as it has not shown to be beneficial in patients less than 40 years old. It has not been evaluated in pregnant patients over 40 years of age.

Monoclonal Antibodies (mAbs) have demonstrated a small reduction in hospitalization in *unvaccinated* patients aged > 40 with other comorbid conditions. They have not been evaluated in pregnancy and are **NOT recommended.**

Passive Immunotherapies (Convalescent Plasma/IVIG) and biologics (Anakinra, Baricitinib) are NOT recommended outside of approved clinical trials



















