Pediatric Inpatient Management for COVID-19 Positive Patients

There is no FDA approved treatment for COVID-19. Recommendations are based on in vitro and limited clinical data. ID consult required on all COVID-19 positive patients.

**Dosing recommendations:**
- **Hydroxychloroquine:** [see PowerPlan]
  - Loading: 6.5 mg/kg PO q12h x2 doses [Max dose 400mg]
  - Maintenance: 3.5mg/kg PO q12h x8 doses [Max dose 200mg]

**Remdesivir**
- Loading Dose: Moderate Disease
- Maintenance Dose: Moderate Disease

**Tocilizumab:**
- < 40 kg: 200 mg IV x1
- ≥ 40 kg: 500 mg IV x1

**Notes:**
- **Remdesivir:** Requires approval from ID and cardiology: Baseline EKG required followed by continuous telemetry, with cardiology review prior to starting hydroxychloroquine. Page cardiology for urgent review at 312-8843. We recommend AGAINST concurrent azithromycin with hydroxychloroquine, due to lack of pediatric data on clinical efficacy and potential increased risk of torsades de pointes with combined treatment.
- Remdesivir: Compassionate use criteria: Age <18 years or Pregnant. Remdesivir Daily Labs: CMP, CBC w/diff, PT, and urinalysis. COVID-19 PCR, if available, should be performed at regular intervals to monitor response to remdesivir. Would recheck on day 4 of treatment.
- **Tocilizumab:** Tocilizumab treatment can be considered in children who are COVID-19 PCR positive, have hypoxia requiring >40% FIO2 and/or hypotension requiring pressors, and have lab evidence of cytokine storm. Evidence of cytokine storm includes 2 or more of the following: 1) thrombocytopenia, and elevated and increasing value of IL-6 at baseline, and prior to 2nd dose (if indicated).
- **Steroids:** Steroids should generally not be used as treatment for COVID-19. Prior studies assessing outcomes in patients receiving systemic steroids for infections due to SARS-CoV and MERS-CoV found lack of efficacy and possible harm. A retrospective study found benefit to steroids in patients with COVID-19 and ARDS, so steroids may be considered inpatients with ARDS, or in other conditions that require steroid treatment.
- **Neonates:** There are currently no data for neonatal treatment. We do not recommend any of the above treatments in neonates.

**Additional info:**
- Drug interaction information: [http://www.covid19-druginteractions.org](http://www.covid19-druginteractions.org)