**Covid Pediatric Algorithm**

**Inclusion Criteria**
- Positive for or suspected COVID-19 infection AND
- Oxygen saturations < 94% AND/OR
- Signs/symptoms of respiratory disease (e.g. cough, increased WOB) or chest X-ray with pulmonary infiltrates

**Consider Risk Factors when deciding on Inpatient Admission**
- Risk factors for severe disease [active oncologic disease or chemotherapy within 1 year of presentation, severe chronic pulmonary disease or requiring chronic ventilation, hemodynamically significant corrected or uncorrected congenital heart disease, heart failure, chronic hypertension, significant neurologic/neuromuscular disease, immune deficiency (e.g. HIV, SCID), solid organ/bone marrow transplant, patients on immunosuppressant medications (e.g. SLE, vasculitis)]

**Initial Management/ER management**
- Labs: CBC, CMP, CRP, D-dimer, LDH, Procalcitonin, Ferritin
- Consider blood culture, troponin, pro-BNP, lactate, blood gas, if febrile or in shock
- ECG
- CXR
- Studies to consider: EKG, CXR
- If requiring supplemental oxygen consider dexamethasone 0.15 mg/kg/dose (max: 6 mg) or alternative steroid regimen (see "Alternative Steroid Regimen" side box)

**Pediatrics**
- HFNC ≤ 2 L/min/kg
- Normal BP for age

**Consider Daily Labs**: CBC, CMP, D-dimer, CRP

**Consider Dexamethasone** 0.15 mg/kg/dose/day (max: 6 mg daily) for up to 10 days, or alternative steroid regimen (see "Alternative Steroid Regimen" side box)

**Consider Remdesivir if escalating O2 (see "Remdesivir" side box)

**VTE prophylaxis if:**
- D-dimer ≥ 2.5 ug/mL AND
- ≥ 12 years of age (see "VTE prophylaxis" side box)

**Daily Labs**: CBC, CMP, D-dimer, Procalcitonin, CRP, Ferritin
- Consider lactate, blood gas, troponin, pro-BNP

**Dexamethasone** 0.15 mg/kg/dose/day (max: 6 mg daily) for up to 10 days, or alternative steroid regimen (see "Alternative Steroid Regimen" side box)

**Remdesivir** (see "Remdesivir" side box)

**VTE prophylaxis (see "VTE prophylaxis" side box)

If cytokine storm/worsening shock consider **Tocilizumab** (see "Tocilizumab" side box)

**Pediatric ICU**
- HFNC ≥ 2 L/min/kg or ≥ 20 L/min
- Use of Non-Invasive Ventilation (NIPPV)
- Endotracheal intubation
- Shock

**Consider Daily Labs**: CBC, CMP, D-dimer, Procalcitonin, CRP, Ferritin
- Consider lactate, blood gas, troponin, pro-BNP

**Dexamethasone** 0.15 mg/kg/dose/day (max: 6 mg daily) for up to 10 days, or alternative steroid regimen (see "Alternative Steroid Regimen" side box)

**Remdesivir** (see "Remdesivir" side box)

**VTE prophylaxis** (see "VTE prophylaxis" side box)