**Anticoagulation Dosing Recommendations for COVID-19 Patients**

The following dosing recommendations apply to all COVID-19 positive and rule out adult patients at UMMC.

**Standard prophylactic anticoagulation:**

**Normal:** Enoxaparin 40 mg SQ daily
- BMI 40 - 49: Enoxaparin 40 mg SQ twice daily
- BMI > 50: Enoxaparin 60 mg SQ twice daily

**Renal failure (CrCl <30)/CRRT:** Heparin 5000 SQ every 8 hrs or Enoxaparin 30 mg SQ daily
- BMI ≥ 40: Heparin 7500 units SQ every 8 hrs

**Note:** OB recommending standard prophylactic dosing in status post C-section pts. Recommend reading OB note for guidance.

**Note:** Neurosurgery and Vascular neurology recommending standard prophylactic dosing in patients (especially recent stroke patients). Recommend reading note for guidance.

**Enhanced prophylactic anticoagulation:**

**Normal:** Enoxaparin 0.5 mg/kg SQ twice daily*

**Renal failure (CrCl 15-30):** 0.5 mg/kg SQ once daily*

**iHD/CRRT:** COVID Heparin infusion (see page 2)

Serum anti-Xa peak should be drawn 4 hrs after the 3rd dose and repeated with each dose adjustment

**Anti-Xa goal:** 0.2 – 0.6 IU/mL (see algorithm below for dose changes)

*Max 100 mg/dose; Round doses to the nearest enoxaparin syringe size (30, 40, 60, 80, and 100 mg)

**Anti-Xa goal achieved and D-dimer < 1000 ng/mL:**

Yes
- Continue current enhanced prophylactic anticoagulation

No
- See page 2 - Prophylactic Enoxaparin Dose Adjustment

**D-dimer ≥ 1000 ng/mL* and* plt ≥ 100,000:**

Yes
- Change to standard prophylactic anticoagulation

No
- Continue current enhanced prophylactic anticoagulation

**Anticoagulation Decision Tree:**

- **Check a Thromboelastograph (TEG):**
  - **Hyper-coagulable (both):**
    - R time < 5 min
    - Fibrinogen > 200 mg/dL
  - **Normal (both):**
    - R time 5- 10 min
    - Fibrinogen > 200
  - **Hypo-coagulable (both):**
    - R time > 10 min
    - Fibrinogen < 200 mg/dL

- **Therapeutic anticoagulation:**
  - Standard: Increase enoxaparin dosing to target anti-Xa range 0.6 – 1 IU/mL
  - CRRT/Renal failure (CrCl <30): COVID heparin infusion (targeting anti-Xa levels listed below)

- **Continue current enhanced prophylactic anticoagulation**

- **Change to standard prophylactic anticoagulation**

- **MA:**
  - > 70mm: Add aspirin 325 mg daily
  - 50 – 70mm: Continue current regimen
  - < 50mm: Decrease ASA dose to 81 mg or discontinue ASA