

COVID-19 Patient in ICU  
Suggest D-Dimer and TEG on admission

**Suggest all three:**

- D Dimer >1000
- Elevation of D Dimer from baseline
- Evidence of clotting

**TEG**

- Think Rock Glass
- Reaction Time < 5 min
- TEG Angle > 75
- Maximum Amplitude > 70 mm
- Ly30 = 0

Clinical evidence of persistent dead space ventilation - PaCO<sub>2</sub> greater than 40 mmHg despite respiratory rate greater than 25 breaths per minute with tidal volume of 6 mL/kg IBW or higher

AND

Shock defined as requiring vasopressor to maintain MAP > 65 mmHg

**Start DVT Prophylaxis**  
Heparin 5000 units three times daily or LMWH 40 mg daily  
Consult pharmacist for bariatric dosing

**Start Therapeutic Anticoagulation**

- Heparin drip (low intensity) or LMWH 1.5 mg/kg daily or 1 mg/kg twice daily
- Low intensity protocol goal AntiXa 0.4 – 0.5
- Assess treatment with anti Xa levels, D-Dimer, TEG.
- Assessment should be done per protocol on Heparin drip or after 3 doses of LMWH
- Consider adjusting goal AntiXa based on TEG if available

**Consider Therapeutic Anticoagulation (above) with multiple TEG abnormalities**

- May be used to adjust antiXa goals

**Renal Failure**

- 30% of COVID-19 patients may develop renal failure
- Heparin first option for therapeutic anticoagulation

**Consider compassionate use thrombolytics**

**When to switch back to prophylaxis?**

- Confirm absence of DVT with LE ultrasounds
- Suggest monitoring TEG and D-dimer weekly and if remains elevated continue therapeutic anticoagulation.
- Anticoagulation could lower D-dimer and alter TEG so do not stop if these values return to normal
- Suggest continuing therapeutic anticoagulation as long as patient is critically ill in the ICU