MGH COVID-19 Anticoagulation Algorithm

Admitted COVID-19 patients

Contraindication to AC?
- Active hemorrhage
- Platelets < 25,000/µl

Yes ➔ Mechanical prophylaxis

No ➔ Current or prior HIT?

Yes ➔ Use non-Heparin alternative and call Heme consult

No ➔ Prior oral therapeutic# AC?

Acute VTE?

Yes ➔ Lovenox* 1 mg/kg SC Q12h (preferred over UFH*)

No ➔ Lovenox* 40 mg SC QD (preferred over UFH*)

Baseline lab:
- CBC/Diff, PT, PTT,
- Fibrinogen, D-Dimer,
- Ferritin, LDH, Troponin,
- CPK, CK

If D-Dimer > 1,000 ng/ml:
- Monitor D-Dimer daily^ (or whenever labs are drawn)

For ICU patients:
- CBC/Diff, PT, PTT,
- Fibrinogen daily^ (or whenever labs are drawn)

CrCl < 30 ml/min?
- Use UFH* instead of Lovenox
- Monitor w/anti-Xa (PTT unreliable in COVID-19 patients)

Worsening coagulopathy
- Call Heme consult

AC = anticoagulation
HIT = heparin induced thrombocytopenia
ICU = intensive care unit
LMWH = low molecular weight heparin
UFH = unfractionated heparin
VTE = venous thromboembolism
QD = once daily

^or whenever labs are drawn

#If on prior oral prophylactic AC, change to prophylactic Lovenox

*see supplemental tables for specific dosing guidelines/modifications