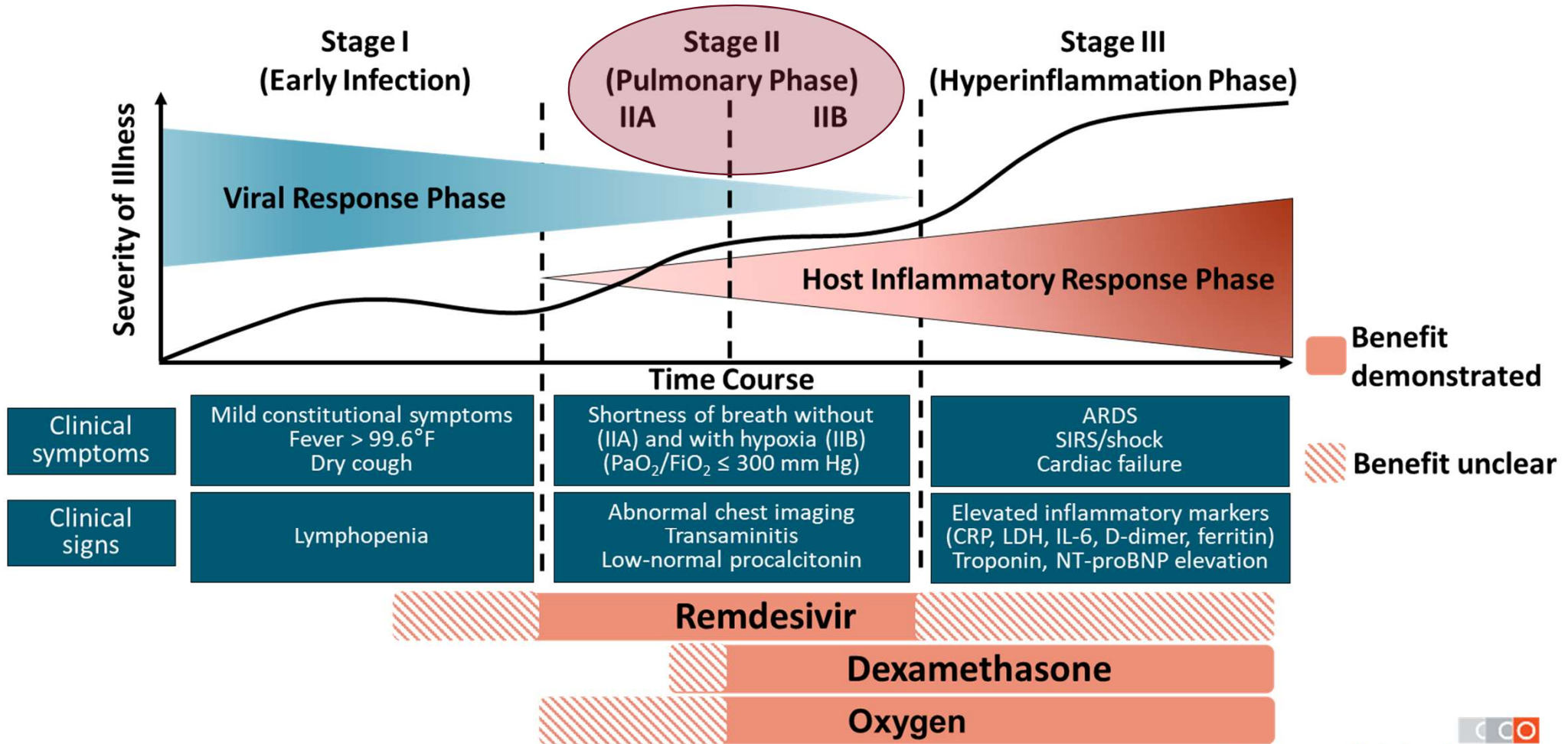


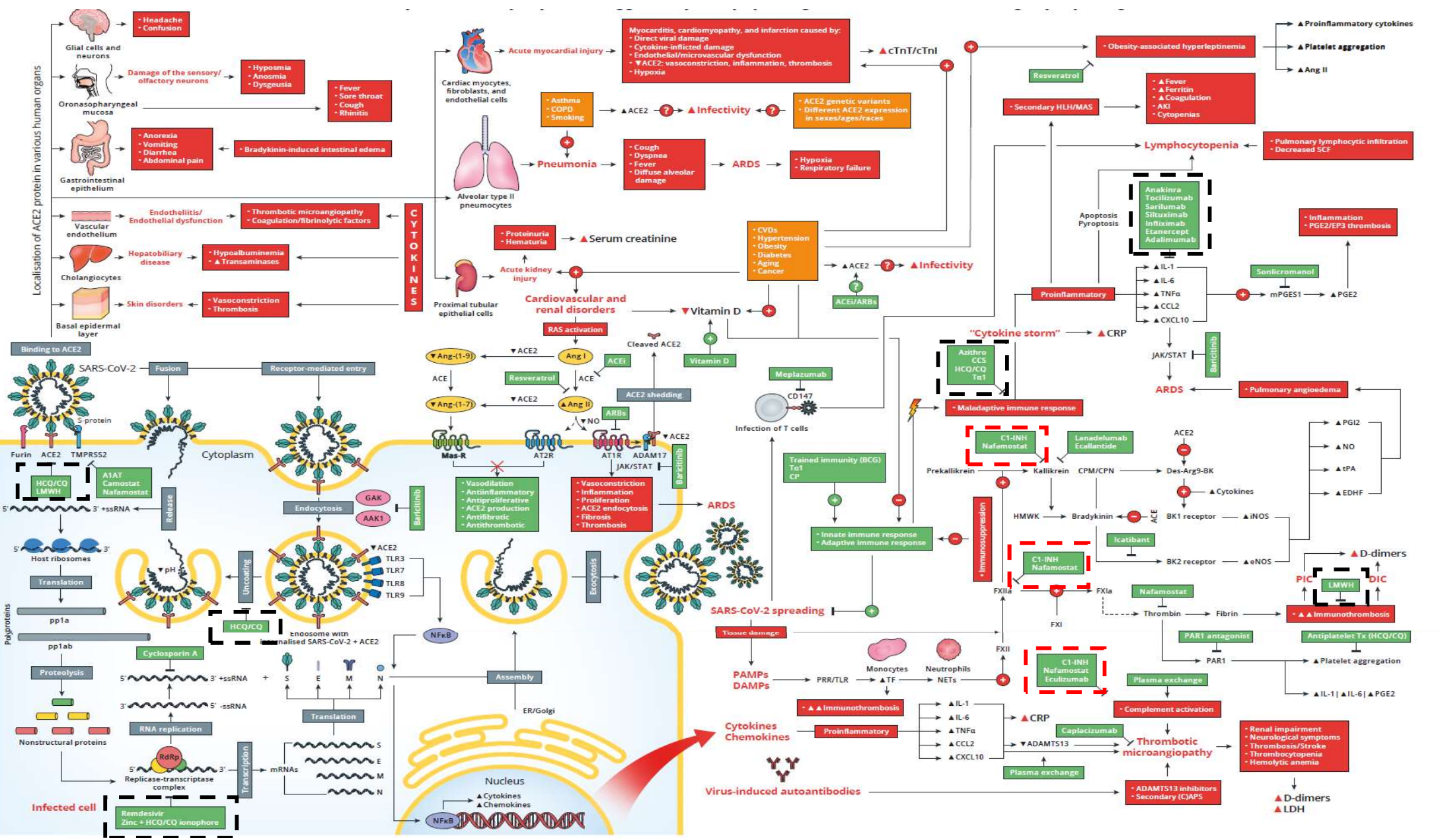
Background: COVID-19 disease stages



Siddiqi. J Heart Lung Transplant. 2020;39:405.

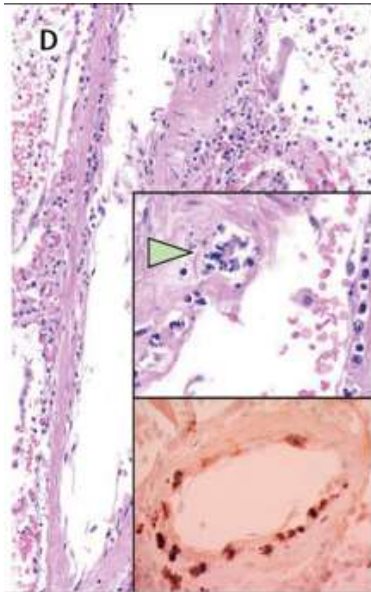
Slide credit: clinicaloptions.com

→ Interventions needed to prevent hyperinflammatory phase (and intubation)

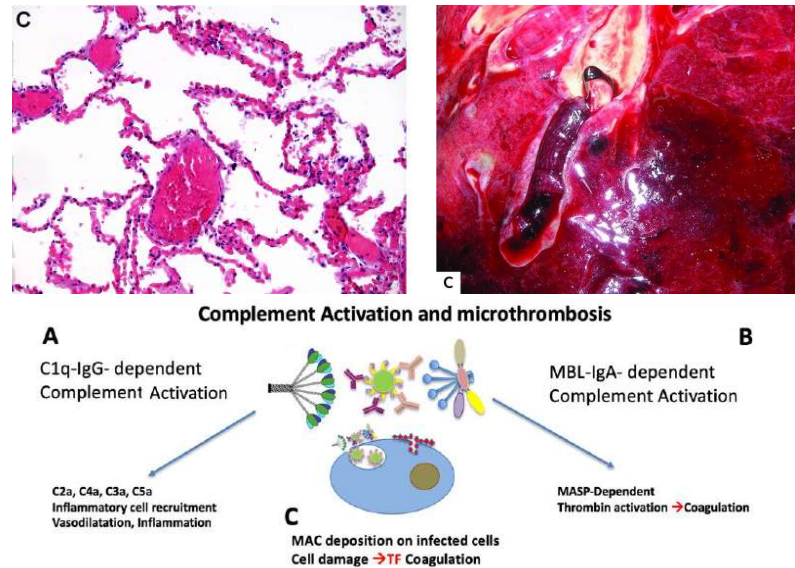


COVID-19 pathology: links to several inflammatory cascades

Inflammation:
Endotheliitis



Platelet activation, procoagulatory pathways:
Capillary congestion, microthrombi/thrombosis



Vasodilation, edema, inflammation:
Diffuse alveolar damage



CT image University Hospital Basel

Complement system

Complement, contact activation
and coagulation system

Kinin-Kallikrein System

Menter T et al., Histopathology 2020
Varga Z et al., Lancet 2020
Wichmann D et al., Ann Intern Med 2020
Srikantharajah T et al., BMJ Case Rep 2018