

# SARS CoV-2 Patient Lab Assays

Assay	Initial Dx	Intermediate	Severe
Total white blood cell [WBC] count	3,600–10,600/ $\mu$ L	<3,600/ $\mu$ L	<3,600/ $\mu$ L
Neutrophils [PMNs]	1,700–7,500/ $\mu$ L	<1,700/ $\mu$ L	<1,700/ $\mu$ L + NET <sup>2</sup>
Lymphocytes [LYMPHs]	1,000–1,500/ $\mu$ L	<1,000/ $\mu$ L	<1,000/ $\mu$ L
Hemoglobin [HGB], anemia	13.5–15/ $\mu$ L	<13.5 g/dL	<9 g/dL
Coagulopathy			
Prothrombin time [PT]	~17s	~17s	>20
Partial thromboplastin time [PTT]	>35 s	>35 s	>35 s
Fibrinogen [Fg]	>400 mg/dL	>400 mg/dL	<220 mg/dL
D-dimer in D-dimer units [DDUs]	>240 ng/mL	>240 ng/mL	>>240 ng/mL
D-dimer in fibrinogen equivalent units [FEUs]	>500 ng/mL	>500 ng/mL	>>500 ng/mL
Coagulation factor VIII [FVIII]	>150%	>150%	>150%
Lupus anticoagulant [LAC]	Positive	Positive	Positive
Protein C, protein S, antithrombin [AT]	<70%	<70%	<70%
Inflammation-Sepsis			
C-reactive protein [CRP]	>820 $\mu$ g/dL	>820 $\mu$ g/dL	>>820 $\mu$ g/dL
Erythrocyte sedimentation rate [ESR]	>20 mm/h	>20 mm/h	>20 mm/h
Interleukin-6 [IL-6]	Elevated	Elevated	Elevated
Procalcitonin [PCT]	<0.5 $\mu$ g/L	>0.5 $\mu$ g/L	>>0.5 $\mu$ g/L
Hepatic			
Albumin	3.5–5.2 g/dL	<3.5 g/dL	<3.5 g/dL
Alanine aminotransferase [ALT]	>40 Units/L	>40 Units/L	>40 Units/L
Aspartate aminotransferase [AST]	>20 Units/L	>20 Units/L	>20 Units/L
Cardiac			
Creatine kinase [CK]	>200 Units/L	>200 Units/L	>200 Units/L
Troponin I	<0.5 $\mu$ g/L	>0.5 $\mu$ g/L	>>0.5 $\mu$ g/L
Kidney			
Blood urea nitrogen [BUN]	8–23 mg/dL	>23 mg/dL	>>23 mg/dL
Creatinine	0.6–1.2 mg/dL	>1.2 mg/dL	>>1.2 mg/dL
Blood group A risk exceeds blood group O			
NET, neutrophil extracellular trap	>, greater than	<, less than	

Adapted from Susan LeClair, PhD