



# COVID-19 and Seasonal Influenza: Interim Guidance for Health Care and Public Health Providers

## CLINICAL MANIFESTATIONS

<b>Table 5.4: Laboratory Findings Associated with Severe COVID-19 Disease and Disease Progression to Respiratory Failure</b>		
<i>Adapted from <a href="#">Laboratory Abnormalities in Patients with COVID-2019 Infection</a> and <a href="#">Risk Factors of Severe Disease and Efficacy of Treatment in Patients Infected with COVID-19: A Systematic Review, Meta-Analysis and Meta-Regression Analysis</a></i>		
<b>Test</b>	<b>Increased</b>	<b>Decreased</b>
CBC	<ul style="list-style-type: none"> <li>• <b>Leukocytes*</b></li> <li>• <b>Neutrophils</b></li> </ul>	<ul style="list-style-type: none"> <li>• Lymphocyte count</li> <li>• Leukopenia</li> </ul>
CMP	<ul style="list-style-type: none"> <li>• Aspartate transaminase (AST)/ alanine aminotransferase (ALT)*</li> <li>• Bilirubin, total</li> <li>• Creatinine</li> <li>• Lactate dehydrogenase (LDH)*</li> </ul>	<ul style="list-style-type: none"> <li>• Albumin</li> </ul>
Other	<ul style="list-style-type: none"> <li>• C-reactive protein (CRP)</li> <li>• Ferritin</li> <li>• D-dimer</li> <li>• <b>Procalcitonin*</b></li> <li>• Prothrombin time (PT)</li> <li>• Troponin, cardiac</li> </ul>	

*\*CDC 9/10/20 May 2020 meta-analysis: Intensive care unit (ICU) admission is predicted by elevated leukocyte count, AST/ALT, LDH, and procalcitonin. Acute respiratory distress syndrome (ARDS) is predicted by elevated LDH. Mortality is predicted by elevated LDH and leukocyte count.*

Excerpted from the Clinical Manifestation section of the CCHCS Interim Guidance for Health Care and Public Health Providers: <https://cchcs.ca.gov/covid-19-interim-guidance/>

Revised 9/30/20