

Review of: "The Nature of Changes in Haematological Parameters in Patients With COVID-19"

Asaad Babker¹

¹ Gulf Medical University, United Arab Emirates

Potential competing interests: No potential competing interests to declare.

- The study does not clearly address confounding factors that could influence hematological changes, such as comorbidities (e.g., diabetes, hypertension), pre-existing treatments, or the use of medications like anticoagulants, which may affect blood cell counts and coagulation parameters. The analysis could have benefited from adjusting for these variables.
- Although the study presents interesting findings, it provides limited explanations for the biological mechanisms underlying some of the observations. For instance, while decreased platelet volume and abnormal macroforms are noted, the study does not explore the specific causes of these changes in depth, such as potential megakaryocyte dysfunction or the influence of inflammatory mediators.
- The study does not categorize patients based on the severity of their COVID-19 infection (e.g., mild, moderate, severe). Hematological changes are likely to vary significantly based on disease severity, and including this variable would provide more nuanced insights.
- The study does not address how various treatments (e.g., antiviral drugs, steroids, anticoagulants) may have influenced the hematological parameters observed. Understanding the role of these treatments would be crucial for interpreting the results accurately.