We read with great interest the article “Can the neutrophil/lymphocyte ratio (NLR) have a role in the diagnosis of coronavirus 2019 disease (COVID-19)?” by Nalbant et al. They aimed to evaluate the role of neutrophil/lymphocyte ratio (NLR), an inflammation marker in the diagnosis of COVID-19. They concluded that NLR is an independent predictor for the diagnosis of COVID-19. First of all, we congratulate the authors for their invaluable contribution to the literature. However, we think that some points should be discussed about the study.

White blood cell count, CRP, and immature granulocyte are useful inflammatory biomarkers in clinical practice. An easily measurable laboratory marker is used to evaluate systemic inflammation, particularly the WBC subtypes NLR and platelet/lymphocyte ratio (PLR). However, these parameters are affected by many factors such as acute coronary syndromes, local or systemic infection, previous history of infection, inflammatory diseases, renal or hepatic dysfunction and known malignancy. For these reasons, it would be better if the authors had mentioned these factors.

It is well known that some drug use, such as corticosteroids, can increase neutrophils and decrease lymphocytes. For this reason, more accurate results can be obtained by excluding or identifying patients with drug use that may cause an increase in NLR in patients in the groups. In addition, plasma inflammatory biomarkers and NLR are time sensitive variables. It is known that ischemic events can increase NLR. Therefore, it is important to define the time from the first symptom to sample collection. As a result, NLR can be affected by many factors. We think that there are still gaps in the clinic regarding the routine use of these parameters in critically ill patients. Larger prospective studies are needed to demonstrate the importance of NLR in COVID-19 on this topic.

AUTHORS’ CONTRIBUTION

CB: Conceptualization, Data Curation, Formal Analysis, Writing – Original Draft, Writing – Review & Editing.
MK: Conceptualization, Data Curation, Formal Analysis, Writing – Original Draft, Writing – Review & Editing.
HHA: Conceptualization, Data Curation, Formal Analysis, Writing – Original Draft, Writing – Review & Editing.

1University of Health Sciences, Antalya Training and Research Hospital Physician, Department of Emergency Medicine – Antalya, Turkey.
2Suleyman Demirel University, Faculty of Medicine, Department of Emergency Medicine – Isparta, Turkey.
*Corresponding author: cihanbedel@hotmail.com
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