# Epidemiologic and clinical characteristics of 3334 cases with pre-diagnosis coronavirus disease - 2019 (COVID-19) in Turkey

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## Abstract

Introduction: As COVID-19 disease has rapidly spread across the world, its impact has grown with increasing number of cases and mortality rate in Turkey. Aim: The aim of this study is to examine epidemiologic and clinical features of the patients that admitted to the hospital with the pre-diagnosis of coronavirus disease-2019 (COVID-19) in Turkey. Method: In this retrospective study, epidemiologic and clinical features, laboratory findings, radiologic features, therapeutic approaches and survival conditions of the patients with the pre-diagnosis of COVID-19 from March 11th to June 30th, 2020. The all data of the cases were compared in 4 groups: 1st group for the confirmed cases reverse transcriptase polymerase chain reaction (RT-PCR) +, chest computed tomography (CT) +, 2nd group for the clinically diagnosed cases (RT-PCR- CT +), 3rd group for the mild and asymptomatic cases (RT-PCR + CT-), 4th group for the suspected cases (RT-PCR - CT -). Post-hoc analysis was performed to evaluate the differences among the groups. Results: In total, 3334 patients with the pre-diagnosis of COVID-19 admitted to the emergency department. Based on the post-hoc analyses, significant differences were found among the four groups in terms of their test results of leucocytes, hemoglobin, platelets, neutrophils, urea and C-reactive protein (CRP) ($p < 0.001$). Furthermore, the factors of age groups, hospitalization, intensive care follow-up and mortality rate of the four groups showed a significant difference among the groups ($p = 0.001$). Conclusion: Mean of leucocytes, neutrophile and platelet values of the patients with tested positive for the RT-PCR was found lower compared to the ones with tested negative for the RT-PCR. Mean of CRP values was found higher in patients with lung involvement compared to other patient groups.

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