

## عنوان مقاله:

Evaluation of Hematological Parameters in Coronavirus Disease ۲۰۱۹ Patients with Aspergillus Rhinosinusitis, Northeastern Iran

## محل انتشار:

مجله ایمنی و بهبود بیمار, دوره 10, شماره 1 (سال: 1401)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

**Introduction:** Aspergillus rhinosinusitis is a potentially lethal complication in patients with underlying immunodeficiencies. Critical laboratory findings, such as lymphopenia and leukocytosis, were highly reported in coronavirus disease ۲۰۱۹ (COVID-۱۹) patients. Based on the correlation between COVID-۱۹ and fungal infections, this study was designed to evaluate the hematologic parameters in COVID-۱۹ patients associated with Aspergillus rhinosinusitis in northeast Iran. **Materials and Methods:** During eight months and among ۸۰ COVID-۱۹ patients suspected of fungal rhinosinusitis, in two tertiary referral hospitals of Mashhad, hematological parameters, such as white blood cell (WBC) count, of ۱۴ patients affected to COVID-۱۹ with Aspergillus rhinosinusitis were precisely evaluated to check leukopenia and leukocytosis. **Results:** The patients showed a range of ۴۲ to ۶۷ years old and a median age of ۵۹. Of the ۱۴ patients, ۸ (۵۷.۴%) had diabetes mellitus, ۹ (۶۴.۲%) died, and two patients has normal leukocyte count. The three, two, and one patients showed leukocytosis, lymphopenia, and leukopenia, respectively. The combination of leukocytosis and lymphopenia was significant in four patients. However, leukopenia and lymphopenia were observed in just one subject. Moreover, leukopenia, lymphopenia, and neutropenia were detected together in one case. **Conclusion:** Aspergillus rhinosinusitis had high mortality among COVID-۱۹ patients. Moreover, the high rate of diabetes mellitus was a severe predisposing factor for COVID-۱۹-associated Aspergillus rhinosinusitis. Leukocytosis (neutrophilia) and lymphopenia were the most common hematological abnormalities among COVID-۱۹ patients with Aspergillus rhinosinusitis.

## کلمات کلیدی:

Aspergillus rhinosinusitis, COVID-۱۹, Infection, Mortality, hematological parameters

## لینک ثابت مقاله در پایگاه سیویلیکا:

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