



A review of the association between cancer and Covid 19

Rostam Rezaeian, Saba Tabaghchi

Department of Biological Sciences, Faculty of Basic Sciences, University College of Nabi Akram, Tabriz, Iran

Rezaeian.r@yahoo.com

Background

The severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2), or novel coronavirus COVID-19, has spread quickly throughout the world since its initial detection in December 2019. Coronaviruses are single-stranded that contain the largest genome among RNA viruses (27–32 kb). The genetic sequence of the COVID-19 was isolated from patients with respiratory infection in Wuhan, Hubei province, China, on January, 2020. The countries with the highest mortality rates are Italy (9.3%), Iran (7.8%) and Spain (6%). The aim of this study was to investigate the association between cancer and Covid 19.

Materials and Methods

In this review study conducted in 1400, articles indexed in Google Scholar, BioRxiv, SID, Science Direct, MEDLINE databases were used. The reviewed articles included 18 research and review articles related from 2019 to 2021, and the most important keywords in this articles were Cancer, COVID-19, COVID-19 pandemic and Genetic.

Results

Patients with COVID-19 and cancer who are admit to hospital have high case-fatality rate. Adverse prognostic factors, including male sex, old age, levels of D-dimer, lactate dehydrogenase, and chemotherapy, may help to recognisesse patients at high risk of mortal consequences.

Conclusion

This review show that the Patients with cancer have a higher risk of severe adverse events compared to those who do not have cancer. In recent researchs, some host genes (TLR7 and TYK2) have been identified as possible genes involved in increasing the severity of Covid 19 disease and finally Real-world data can be quickly leveraged to understand vital healthcare challenges.

References

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