



TITLE: Warm Autoimmune Hemolytic Anemia And Covid-19

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ABSTRACT:

Background: Autoimmune hemolytic anemia (AIHA) has many known disease associations like autoimmune diseases (SLE), lymphoproliferative disorder, and certain infectious diseases as well as various medications. Studies found that severe cases of COVID-19 may be associated with coagulopathies; however, the potential association with AIHA is not clear.

Case Report: A patient with no known risk factors or underlying predisposing factors for developing AIHA presented to a hospital with unusual symptoms and profound anemia with complicated blood bank evaluation. He was found to have COVID-19 and AIHA for which extensive laboratory testing was performed, including direct anti-globulin tests and cold agglutinin titres, to identify the causative antibody. He was required steroid therapy before clinical stabilization.

Discussion: AIHA is a complex disease with a spectrum of presentations and clinical severity. Many diseases have been associated with a propensity for developing AIHA; however, there are few cases in the literature of patients with COVID-19 and AIHA. Most of the reports involve patients with other underlying conditions that known to be associated with development of AIHA, without other underlying condition in the setting of severe COVID-19 disease are discussed.

Conclusion: There are few reports of the patients with concurrent COVID-19 and AIHA and this association is not clear. Although, COVID-19 has been shown to be associated with coagulopathies, more research is required to determine, whether AIHA may also be a potential complication.

Keywords: Anemia, autoimmune hemolytic anemia, COVID-19, infectious disease, SARS-Corona virus-2.

BIOGRAPHY:

Dr.Shahroz Azhar has completed his MBBS at the age of 24 years from Gujranwala Medical College/UHS , Pakistan . He has completed his fellowship training in Internal Medicine from KEMU/Mayo Hospital Lahore, Pakistan . He is the Registrar in Internal Medicine at Pakistan Kidney And Liver Institute & RC . He has a case report published in Polish Archives Of Internal Medicine, and his publication impact factor 2020 is 3.277.

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