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The Association between ABO System and Rh Factor with COVID-19 in Basrah Province, Iraq

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Abstract: The new coronavirus illness of 2019 (COVID-19) has been quickly spreading around the world and was deemed a pandemic by the World Health Organization. Numerous infectious diseases have been linked to the ABO blood group system. The novel respiratory infectious disease coronavirus disease 2019 (COVID-19) may have a connection to the ABO blood group system [1]. Our study's goal was to determine whether there was any correlation between COVID-19 infection and the ABO blood group system. ABO system and RH factor distribution in 125 patients from a private clinic in Basrah/Iraq province who had COVID-19 confirmed by PCR (polymerase chain reaction) test and lung CT scan had been assessed. We correlated the severity of COVID-19 infection with the ABO blood group of patients under study. The results of our study blood group O predominate in COVID-19 patients, Between all instances, blood group O had a smaller percentage of severe cases than mild ones (48.6 percent). There were no serious cases with blood type AB patients. In conclusion, our research demonstrates that, while having milder cases, patients with blood group O had a higher chance of COVID-19 infection.

Keywords: COVID-19, blood groups, susceptibility.

伊拉克巴士拉省ABO系统和恒河猴因素与新冠肺炎 的关联

摘要:2019年的新型冠状病毒疾病已在全球迅速蔓延,并被世界卫生组织认定为大流行 病。许多传染病都与ABO血型系统有关。新型呼吸道传染病冠状病毒病2019可能与ABO血型 系统有关[1]。我们研究的目标是确定新冠肺炎感染与ABO血型系统之间是否存在任何相关性 。对来自巴士拉/伊拉克省一家私人诊所的125名通过聚合链反应测试和肺部计算机断层扫描 确认患有新冠肺炎的患者的ABO系统和恒河猴因子分布进行了评估。我们将新冠肺炎感染的 严重程度与所研究患者的ABO血型相关联。我们研究的结果是欧型血在新冠肺炎患者中占主 导地位,在所有情况下,欧型血的重症病例低于轻度病例(48.6%)。AB型血患者无重症病例 。总之,我们的研究表明,虽然病情较轻,但欧型血患者感染新冠肺炎的几率更高.

关键词:新冠肺炎、血型、易感性.