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Under The Patronage of his Excellency Dr Yousef Goussous

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Post Covid-19 Vaccine Side Effects among Medical Students at Mutah University, Al-Karak, Jordan

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Abstract

Background: Following the spread of COVID-19 infection in 2019, (FDA) granted emergency authorization and approval of vaccines to protect people from the ensuing COVID-19 pandemic complications. Adverse effects of the vaccination have not been fully recorded. That is why reporting side effects and conducting specific measures regarding the side effects is crucial.

Objective: The aim of the present study is to document vaccine side effects, if recorded, associated with the different types of COVID-19 vaccines among medical students at Mutah University in Jordan.

Method: Prospective survey study that was started on January 4th, 2022 till 20th of march. It was conducted on medical students (first up to sixth year) at Mutah University in Jordan. Statistical analysis was done using SPSS version 25.

Results: The results of the present study showed that 7.8% of participants are not vaccinated. The most common complication encountered proved to be pain at the site of injection (78%). 62.6% of participants have taken the Pfizer vaccine, 31.7% have taken Sinopharm, and about 4.4% have taken AstraZeneca. Headache proved to be the second most encountered complication after the first dose of vaccine. However, convulsions were reported to be the least encountered (3.7%). DVT proved to be 0.5% after the first dose, and after the second dose of vaccine, DVT proved to be 1%. Only 2.2% of participants needed hospitalization after the first dose of vaccine and 3% after the second dose. On the contrary, after the third dose of vaccine, the hospitalization percentage increased to 5.3%. Incidence of COVID-19 Infection after the first dose was 6.6%, in comparison with 61.7% before vaccination. However, after the second dose of vaccine, the rate of infection was 48.1%. After booster dose, the incidence of infection was 2.7%.

Conclusion: It was clearly apparent that vaccination produced a dramatic decrease in Covid-19 Infection rate. No serious life threatening complications were reported regarding vaccination. The widely used vaccine among medical students of Mutah School of Medicine proved to be Pfizer. We recommend that the vaccine should be taken regardless of any recorded complications.

Keywords: COVID-19, AL-Karak, post-vaccination complication



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Biography

My name is Julie Owaidat, and I am a fourth-year medical student at Mutah university. I usually spend my leisure time playing the piano, it has been my favorite pastime since high school as it is relaxing and helps me unwind. I also enjoy volunteering, particularly when it involves assisting those in need. In 2018, I worked with a couple of non-profit organizations, including Habitat for Humanity and Tkiyet Um Ali. I attended a CPR workshop with IFMSA in 2020.