



## Proposed Training on Covid 19 Vaccination for Global Volunteering

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February 1, 2023

## **Proposed Training on Covid 19 Vaccination For Global Volunteering**

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## Abstract

**Background:** More than six million individuals have died as a result of the SARS-CoV-2 outbreak. Since vaccines can stop the pandemic, the pandemic has sped up the development and production of COVID-19 vaccines. The aim of this study is to estimate the prevalence of students from Almaarefa University volunteering at Diriyah hospital in Saudi Arabia.

**Methods:** From March 2021 to December 2021, Al-Maarefa University students who volunteered at the Diriyah Hospital to assist with the immunization campaign participated in a cross-sectional study. To ensure the safety of the students, a formal training program on immunization and infection control was provided by the nurses of Diriyah Hospital. Upon volunteering through the ministry of health's official platform for volunteers, appreciation certificates were handed to the participants.

**Results:** Only 556 of the 2700 students that attended the vaccination program at the diriyah hospital volunteered. Participants came from all of the university's colleges and included both male and female students. More than 50,000 community members were served during these 9 months with more than 15,000 hours of volunteer work and staff assistance.

**Conclusion:** A vaccination campaign as comprehensive as the current COVID-19 immunization exercise has never before been imposed upon the world. At Diriyah Hospital, there was a high frequency of student volunteers and solid understanding of the value of volunteering among students with knowledge of infection control to aid the neighborhood, the nation, and ultimately the world in the fight against this pandemic. During emergencies, medical students might be used to perform crucial clinical tasks in a safe and efficient manner.

## Introduction

More than six million individuals have died as a result of the SARS-CoV-2 outbreak, which has put an unprecedented strain on public health globally. Since vaccines can stop the pandemic, the pandemic has sped up the development and production of COVID-19 vaccines. The program's initial immunization campaigns were limited to high-risk populations like the elderly, people with comorbid conditions, and healthcare professionals (1). The severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)-caused communicable coronavirus illness 2019 (COVID-19), which was originally identified in Wuhan, China, in December 2019, has since spread throughout the world, posing health and socioeconomic risks. Although SARS-CoV-2 is a member of the coronavirus family, it differs from earlier human coronaviruses (such as SARS-CoV and Middle East respiratory syndrome CoV [MERS-CoV]) in that the disease it causes progresses in a way that is unpredictable and variable (2). There have been 827,772 cases of covid reported in Saudi Arabia to date, with 815,355 patients recovering (3). A covid 19 vaccine program was launched globally for volunteers giving the vaccine to support healthcare professionals, beginning with Washington post (4), CNN health (5), University of New England (6), The number of vaccine administrators who are qualified to provide the COVID-19 vaccination is being increased by states across the US (7), University of Maryland Baltimore (8), Rutgers Global Health Institute (9), Florida International University (10), University of Southern Queensland (11), University of North Georgia (12), British Medical Association (13), UC Davis Health (14), Association of American Medical Colleges (15). The aim of this study is to estimate the prevalence of students from Almaarefa University volunteering at Diriyah hospital in Saudi Arabia.

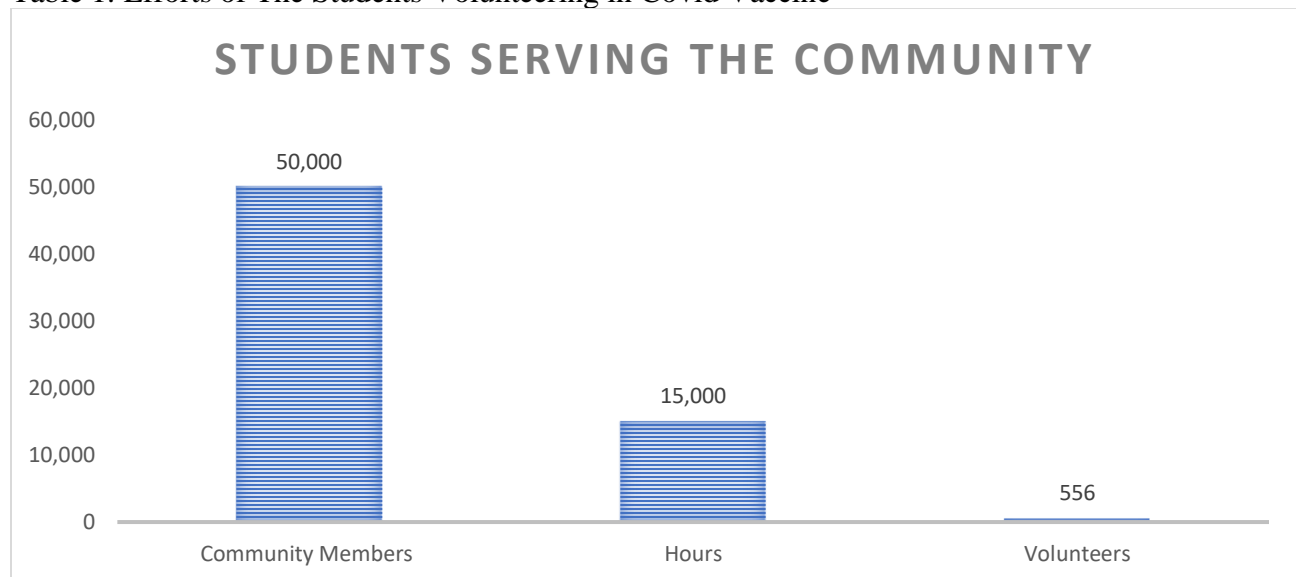
## Methods

The intramuscular method is used for administering all vaccinations. The use of aseptic method during immunization was noted. The appropriate dosage is then produced and injected into the upper arm's deltoid muscle. Skin preparation before application and adhesive plasters were necessary. After administration, the patient was given information on typical side effects (such as a hurting arm or feeling ill for a day) as well as if a second dose or booster shot was necessary. The patient was urged to maintain precautions such as face covering, hand washing, and social distance. Along with a patient information pamphlet, a vaccination receipt is given. The clinical system also keeps track of information on the clinical evaluation, consent, and vaccine (vaccine name, batch number, expiration date, administration site, name of vaccinator). The Tawakkalna application, created by The Saudi Data and Artificial Intelligence Authority (SDAIA), was used to report information on ordering tickets for vaccinations and negative incidents in support of government initiatives to combat COVID-19. From March 2021 to December 2021, Al-Maarefa University students from all colleges who volunteered at the Diriyah Hospital to assist with the immunization campaign participated in a cross-sectional study. To ensure the safety of the students, a formal training program on immunization and infection control was provided by the nurses of Diriyah Hospital virtually and on site prior the starting of the vaccine program. Upon volunteering through the ministry of health's official platform for volunteers, appreciation certificates were handed to the participants from the ministry's platform and from the university.

## Results

Only 556 of the 2700 students that attended the vaccination program at the Diriyah hospital volunteered. In table 1 participants came from all of the university's colleges and included both male and female students. More than 50,000 community members were served during these 9 months with more than 15,000 hours of volunteer work and staff assistance.

Table 1. Efforts of The Students Volunteering in Covid Vaccine



## **Discussion**

Students are ideally situated to assist in the vaccination campaign during a pandemic like COVID-19. Students may help underserved communities and expand access to vaccines by doing this, we had 556 students volunteer in one hospital during the pandemic, 128 students work at 103 local events in another study by Andrew 2022 (16), One hundred seventy-one students work at event by Colleen King Goode 2022 (17), more than 500 students students work at events by Derek Soled 2020 (18), 291 students volunteered by Taneisha Sinclair 2022 (19), and more than 530 medical and graduate students by Bahethi 2021 (20). In this study, the students worked for more more than 15,000 hours in nine months. In another study by Taneisha Sinclair 2022 did more than 2,400 hours of service in five months (19), and Bahethi 2021 students worked for 29,602 hours in seven hospitals over the course of four months in another study (20). The immunization program had a positive impact on students' medical knowledge, according to reports from the volunteer program and elective course. The fact that students loved having the chance to study and practice intramuscular injection was a recurring theme. Since there are frequently few opportunities for safe skill practice in medical school courses, this exceptional experience provided a way to encourage procedural learning that the students found valuable. By advising patients and their families on vaccination, students further noted that they had plenty of chance to practice and develop their communication skills—skills that, in our opinion, will be useful in practice across specialties in the future.

## **Conclusion**

A vaccination campaign as comprehensive as the current COVID-19 immunization exercise has never before been imposed upon the world. At Diriyah Hospital, there was a high frequency of student volunteers and solid understanding of the value of volunteering among students with knowledge of infection control to aid the neighborhood, the nation, and ultimately the world in the fight against this pandemic. During emergencies, medical students might be used to perform crucial clinical tasks in a safe and efficient manner. We also advise creating volunteer programs for medical students that focus on the potential and educational advantages for students as well as the value to the community.

## **Ethical Consideration:**

Not applicable because there are no research using human or animal subjects in this article.

## **Acknowledgment:**

The authors deeply acknowledge AlMaarefa University, Riyadh, Saudi Arabia for supporting the steps of this work.

## **Funding:**

No fund from any agency.

## **Conflict of Interest:**

All authors declares no conflict of interest.

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