

Enhance Training Among Nursing Staff to Proper Administration of COVID-19 on Campus

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Introduction

According to the World Health Organization statistics as of January 2023, approximately 600 million people around the world are infected with the COVID-19 virus, amounting to a mortality rate of 1.01%. Vaccination is one solution to prevent being infected with COVID-19.

In September 2021 in Taiwan, medical staff entered school to vaccinate students. During the process, there was no standardized on-campus COVID-19 vaccination process.

Objective

Establish a standardized on campus COVID-19 vaccination process to ensure the safety of students.

Method

To improve the safety of vaccination, a standardized on-campus COVID-19 vaccination process was formulated used to ensure the safety of COVID-19 vaccination.

The standard procedure for administering the COVID-19 vaccine includes the following steps:



- Method
- 1.Utilize cold storage bags and temperature monitors to maintain the COVID-19 vaccine at a temperature between 2-8°C, ensuring the vaccine's stability and efficacy.
- 2.Provide training on the correct dilution method of the Pfizer-BioNTech COVID-19 vaccine to ensure accurate vaccine preparation, and assign audited personnel to be responsible for vaccine dilution and minimize the risk of errors.
- 3.After dilution, store the vaccine in a separate and secure location to ensure safety and proper storage conditions.
- 4.Obtain informed consent from the family members of the recipient before administering the vaccination.
- 5.Conduct a thorough physical assessment of the recipient before vaccination, including measuring body temperature and checking for any history of drug allergies.
- 6.Verify the recipient's name, the type of vaccine, the correct dosage, and route of administration before proceeding with the vaccination.
- 7.After vaccination health education vaccine precautions, such as: fever, palpitation ,etc. observe the recipient for a period of 15 minutes to monitor for any immediate adverse reactions. If the recipient shows no abnormal signs or symptoms during the observation period, they may be comfortably discharged from the observation area.

Results

During the period from September 2021 to September 2022, we provided assistance in administering vaccines to a total of 14,976 students across 8 elementary schools, 6 junior high schools, and 2 senior high schools. Vaccinations were 1237 students received Moderna vaccine and 13739 students received Pfizer-BioNTech COVID-19 vaccine. Vaccination Results:

Item	%
Keep the cold chain of vaccines at 2-8°C	0%
Vaccine dilution method was executed correctly	100%
Before vaccination consent from the family members	100%
Before vaccination underwent evaluation by a Physician	100%
After vaccination observe the recipient for a period of 15 minutes	100%

The resulting in a accuracy rate for the vaccination process, medical professionals can ensure the safe and effective administration of the COVID-19 vaccine while maintaining high levels of patient care and safety.

Conclusion

The technical standards of the standardized COVID-19 vaccination process can enhance the safety of on-campus vaccination.



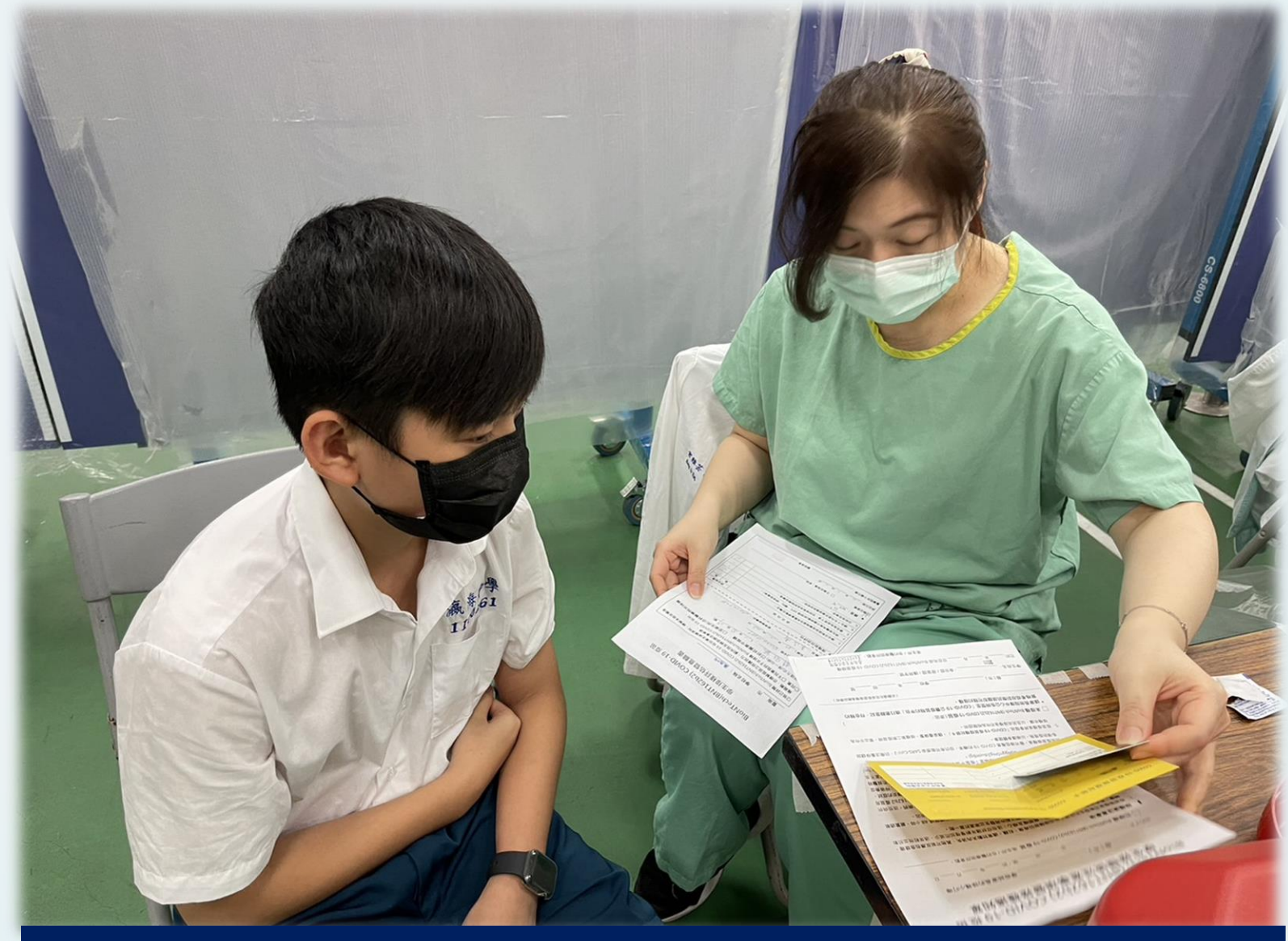
Designated Personnel for Dilution



After dilution separate ensure safety



Pre-Vaccination: Physical Assessment



Check Consent from Family Members



Vaccination : Check Name, Dose



Post-Vaccination: Observation 15 min

