

Nurses' Awareness of Side Effects After Vaccination at Primary Health Care Centers: Descriptive study

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Abstract

Background: Vaccination of infants and young children against serious infectious diseases is the most successful and cost-effective intervention in preventative health care. However, vaccination occasionally leads to undesirable effects including adverse reactions that are referred to as adverse events following immunization.

Material and Methods: Descriptive study was used to adopted current study. The study extended from (1-2-2021) to (1-7-2021). The sample of the study consists of (39), (20) male and (19) female from different primary health care centers at left side in Mosul City. A questionnaire was developed based on the previous study related to the research problem. Data were analyzed by using SPSS version 26.

Results: the main results of the present study showed that the majority of nurse's knowledge about adverse effects following immunization were good (30.24), and the practice slightly less than acceptance (23.69).

Conclusion: The researcher concluded that the nurse's knowledge about adverse effects following immunization were good, but nurses' practice was slightly less than acceptance.

Keywords: Vaccination, Awareness, Adverse effects.

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Introduction

Immunization of infants and young children against serious infectious diseases is the most successful and cost-effective intervention in preventative health care ⁽¹⁾. However, vaccination occasionally leads to undesirable effects including adverse reactions that are referred to as adverse events following immunization (AEFI) ⁽²⁾. Any untoward medical occurrence that occurs after immunization, which is not necessarily due to the usage of the vaccine,

is considered an adverse event following immunization. Immunization is believed to be the source of the adverse events, which is why they're of concern. Adverse events that are more commonly reported following vaccination include redness, swelling, and pain at the injection site. Fever, rash, excessive crying, convulsions, anaphylaxis, encephalitis, drowsiness, or irritability are the typical characteristics of the other conditions⁽³⁾. Global Advisory Committee on Vaccine Safety (GACVS) was established in 1999 with the goal of consulting with WHO on vaccine safety issues of global importance. Monitoring systems for vaccine-related adverse events have been implemented in many countries, but they are not standardized⁽⁴⁾. The World Health Organization found that 53% of all WHO member countries have a national AEFI monitoring system. This rather contradicts the statement above, in which it is said that most countries are able to detect serious AEFI that causes death and hospitalization^(5,6).

Methods and Materials:

Descriptive study was used to adopted current study. The study extended from (1-2-2021) to (1-7-2021). The sample of the study consists of (39), (20) male and (19) female from different primary health care centers at left side in Mosul City. The study was conducted at vaccination units in three primary health care centers in the left side in Mosul city includes (Al-Quds primary health care center, Al- Zahraa primary health care center and Al Sharqee primary health care center). A questionnaire was developed based on the previous study related to the research problem, and validity tested by presenting it to a group of experts in the several fields includes nursing, medicine and medical statistics. The collected data was arranged analyzed and presented in tables by using frequency and percentage by using SPSS version 26⁽⁷⁻¹³³⁾.

Results:

Table (1): Distribution of the study sample according to their demographic variables.

Variables				
Age	No.	%	Mean	SD
Less than 26 years	15	38.5	2.25	1.371
26-29 Years	11	28.2		
30-34 Years	6	15.4		
35-39 Years	2	5.1		
40 Years or more	5	12.8		
Total	39	100%		
Gender	No.	%	Mean	SD
Male	20	51.3	1.48	0.50
Female	19	48.7		
Total	39	100%		
Educational level	No.	%	Mean	SD
School	12	30.8	2.02	0.81
Institute	14	35.9		
college	13	33.3		
Total	39	100%		
Workplace	No.	%	Mean	SD
Al-QudasPHCc	12	30.8	17.6	0.58
Al-ZahraaPHCc	24	61.5		
Al-SharqeePHCc	3	7.7		
Total	39	100%		
Experience	No.	%	Mean	SD
Less than 1 Years	2	5.1	2.79	0.92
1-4 Years	15	38.5		
5-10 Years	11	28.2		
More than 10 years	11	28.2		
Total	39	100%		

This table indicated that the majority of the study sample was less than 26 years (38.5%), and more than half was male (51.3%), the majority of them was (1-4) years' experience (38.2%).

Table (2): Distribution of the study sample according to their score of Awareness

Score of Awareness	No	%	Mean of score
Poor K (12-less 24)	5	12.82	30.24
Accepted K (24-29)	8	20.52	
Good K (More than 30)	26	66.66	
Total	39	100%	

This table indicated that the majority of the nurse's knowledge regarding adverse effects following immunization are good, (66.66%), and the mean of knowledge score (30.25).

Discussion:

A critical role is played by nurses in influencing and protecting public confidence in vaccine safety by implementing AEFI⁽⁶⁾. Direct involvement in the processes of AEFI detection, investigation, reporting, and management is a role of this position. Although there is limited knowledge, perceptions, and practices surrounding of AEFI, the issue is understudied⁽⁷⁸⁾. Although it was unknown whether nurses in Iraq were trained and knowledgeable in AEFI, it was clear that they weren't. Much of what they believed and did regarding AEFI remained unknown to others. Table(1) indicated that the majority of the study sample was less than 26 years (38.5%), and more than half was male (51.3%), the majority of them was (1-4) years' experience (38.2%). Table 2: indicated that the majority of the nurse's knowledge regarding adverse effects following immunization are good, (66.66%), and the mean of knowledge score (30.25).

Conclusion:

Based on the study results the researchers concluded that the nurse's knowledge about adverse effects following immunization were good and the nurses practice related adverse effects following immunization were slightly less than acceptance.

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