

Awareness and Attitudes of Nursing Students towards Prevention of Cervical Cancer

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Abstract

Cervical cancer is the second most common women cancer worldwide, accounting for 13% of female cancers. It ranks as the second most frequent cancer among women after breast cancer in Sudan as well as other developing countries. This study seeks to assess the knowledge, and the attitude of female staff and students of undergraduate nursing students of Khartoum universities, Sudan, towards cervical cancer prevention.

A structured interview questionnaire was used for data collection; the questions were made to capture the objectives of the study. Most of the students (84.0%) were not aware of other screening methods than Pap smear test and the burden of cervical cancer and its prevention (p = 0.000). Approximately half of the respondents (49.9%) have no complete information about the HPV vaccine. However, the other half showed positive attitudes towards HPV vaccination and were eager to recommend HPV vaccine to their family and other members of the community. More than two thirds of respondents exhibited positive attitude and were willing to undergo Pap smear in the future. The study shows that the majority of the participants have poor information about cervical cancer prevention. Education would motivate nurses to participate actively in awareness raising, screening, and management.

Keywords: Cervical cancer; Knowledge; Attitude; Barriers; Screening

Introduction

Cervical cancer is the second common cancer among women worldwide, half million of cases were diagnosed annually, resulting in 300.000 deaths, 86% most of which occur in low and middle income countries, including Sudan [1,2]. Cervical cancer is a malignant disease of the cervix usually occurring in the 5th or 6th decade of life at a mean age of 54 years. The disease has a pre-malignant stage, which usually occurs in younger women under the age of 40 [3].

There are contributory factors that make women vulnerable to develop cervical cancer, viral infections (HPV, HIV, and HSV), multiparity, early initiation of sexual activity, multiple sex partners, smoking, low socioeconomic status, diet low in antioxidants, poor hygiene, long term use of oral contraceptives and immune suppression conditions [4].

Cervical cancer is a preventable disease and a key aspect of prevention is early detection of precancerous conditions through the Papanicolaou cytology screening (Pap smear), it was accepted worldwide as an efficient tool for secondary prevention. Pap smears effectively reduce the incidence of cervical cancer by 75-90% [5]. Disparity in incidence between the low- medium and high income countries can be attributed to lack of awareness of cervical cancer and the lack of effective cytological screening programmes [6].

Currently, two HPV vaccines (Gardasil 17 and Cervarix[®]) were approved for primary prevention of cervical cancer vaccine and both seem to protect against HPV6/11/16/18 and the HPV 16/18 respectively. The vaccines are recommended for young women before an HPV infection is acquired as well as before they begin their sexual intercourse [7].

Strategies were developed to advocate for visual inspection with acetic acid (VIA) and visual inspection with Lugol's iodine (VILI) tests as alternative strategies. These trials are largely used in developing countries since they are less laboratories dependent, and a range of healthcare providers such as physician, nurses, midwives, and paramedical health workers can be trained in 5–10 days compared with the training of cytotechnologists that required 12–24 months for cytology screening [8].

Nurses can be instrumental in educating the public about vaccination and increasing awareness about the availability of the tests and the treatment, and thereby contribute in the reduction of the morbidity and mortality of cervical cancer; therefore there is a strong need to educate nurses about the risks and impact of HPV and cervical cancer [9].

Materials and Methods

A cross-sectional descriptive study was carried out among undergraduate nursing students at nursing colleges at Khartoum State Universities, Sudan. A total of 246 students were randomly selected to participate in the study. Structured questionnaire was designed to assess knowledge and perception of students towards cervical cancer prevention. Pre-testing of the questionnaire was done on 10 respondents, after which necessary changes were made, and the questionnaire was re-administered. Social Package of Statistical Sciences (SPSS) statistical software version 16 was used to generate statistical parameters like proportion, mean, standard deviation, etc. Chi Squire Test was used as a test of significance and p values of <0.05

р

.758

129

.052

Good%

0%

1.7%

4.3%

1.6%

0.0%

5.3%

0.0%

0.0%

0.0%

0.0%

25.0%

25.0%

0.0%

0.0%

was considered as level of significance. Verbal-informed consent was

Fair

7.7%

12.9%

19.6%

12.9%

4.5%

15.8%

28.0%

5.9%

0.0%

5.0%

51.6%

19.4%

16.1%

0.0%

Screening Method for Cervical Cancer

Poor

92.3%

85.4%

76.1%

85.5%

95.5%

78.9%

72.0%

94.1%

100.0%

95.0%

31.3%

12.8%

41.2%

1.9%

taken from all subjects (Table 1).

Gender

Female

University

Khartoum

Alneelain

Alribat

UTMS

Africa

Alazhary

Alneel

Bahray

Nursing

College

Mass

(TV, R, I)

Workshop

Clinical Setting

Source of Information

Media

Male

N=100%

College and Clinical	12.8%	12.9%	50.0%	

Table 1: Shows Students' knowledge of Cervical Cancer ScreeningMethods by Various Biosocial Characteristics.

Result

Most of the respondents (37.4%) told that mass media such as TV, Radio, and the Internet was the major sources of information (Figure 1).

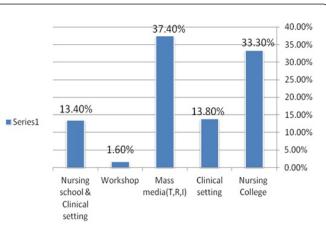


Figure 1: Source of Information among students.

Pap smear was the most popular screening test; only (1.7%) had knowledge of preventive measures. Around half of the respondents (49.9%) have no complete information about the HPV vaccine. The remaining half of the respondents revealed positive attitudes towards HPV vaccination and were eager to recommend HPV vaccination. Two third of respondents (72.8%) exhibited positive attitude and were willing to undergo Pap smear in the future (Table 2).

	Other risk factors for Cervical Cancer				р
	N=100%	Poor	Fair	Good	
Male		53.80%	38.50%	7.70%	0.472
Female		57.90%	24.50%	17.60%	0.472
18-21		49.50%	31.20%	19.40%	
22-25		61.80%	22.90%	15.30%	0.151
26-30		77.80%	0.00%	22.20%	
Khartoum		20.40%	16.10%	16.70%	
Alribat		13.40%	27.40%	61.90%	-
Alneelain		8.50%	12.90%	4.80%	
UTMS		10.60%	4.80%	2.40%	0
Africa		8.50%	17.70%	4.80%	
Alazhary		16.90%	14.50%	2.40%	
Alneel		8.50%	4.50%	7.10%	

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Bahray	13.40%	1.60%	0.00%	
Nursing College		35.50%	31.00%	
Clinical Setting	15.50%	9.70%	14.30%	
Mass Media (TV, R, I)	42.30%	38.70%	19.00%	0.004
Workshop	1.40%	1.60%	2.40%	
College and Clinical setting	7.00%	14.50%	33.30%	

Table 2: Shows Students' Knowledge about Cervical Cancer Risk Factors by Biosocial Characteristics.

Discussion

Although cervical cancer a common gynecological cancer in developing countries, the awareness of the disease burden, its size and availability of screening test was poor among nursing students which considered an important barrier to cervical cancer prevention [10].

Most of the respondents in our study (84.0%) were not more aware of the other screening method than Pap smear exams. The fact that Pap smear most uses full screening, due to its existence for over 60 years. However, Other screening methods such as liquid-based cytology and Human Papilloma Virus DNA, practice widely in developed countries, because of high financial and technological requirements [11]. Thus, formal lectures and seminars were the major sources of data for many of the participating nurses [12]. We find a similar result from a survey conducted by He sham et al., among undergraduate students of University Kebangsaan Malaysia(UKM). In addition, some studies have shown that nurses knew very well about symptoms and risk factors of cervical cancer, therefore, the American Cancer Society suggests focusing on the danger factors and behavior to help prevention of cervical cancer, such as smoking, use Oral contraceptive, and unsafe sex, but our respondents have poor knowledge regard the risk factors for cervical cancer more than half (57.8%) [13]. The present work, 37.4% of our respondents had their data from media. Similar findings recorded from different studies. A study conducted at the Cancer Research Center in Honolulu 2005, similar conclusions pointed to media as a popular source of data. Recently consider Human Papilloma Virus vaccine ideal instrument for the primary prevention of cervical cancer a novel concept. Also, Provides protection of 90% -100% against persistent infection and cervical disease, and typifies the future method of cancer prevention. It will get benefit from expanding credibility to vaccine communications through partnerships with community-based, public, health organizations and networks. These channels important in resourcepoor settings, where members of the public lack access to media channels or may not trust the government or health agency. Community outreach and mobilization activities, including interest, of local leaders, can also have great impact [14].

This study revealed that only 54.1% of respondents knew about the Human Papilloma Virus vaccine, similar to findings from Nader Ghotbi et al. The survey, conducted in Prefectural university in Japan 2010 [15]. Conversely, to Magda study in which only 21.9% of female at health Science College (Saudi Arabia) knew about the Human Papilloma Virus vaccine. Some other work from Pakistan showed awareness less than 10% about the Human Papilloma Virus vaccine [16,17]. Opposite to all a recent written report done at Korean University female undergraduate students shows, scholars that mostly

informed about Human Papilloma Virus vaccine as primary preventive measures against cervical cancer (83.8%) [18].

Conclusion

Those students who were aware that cervical cancer is a preventable disease, and a few screening programs for control. Nevertheless, Students showed great interest and suggested that information about cervical. Education would motivate nurses to take part actively in raising the awareness, the covering, and prevention of cervical cancer.

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