Knowledge regarding cervical cancer among undergraduate female students at a selected college of Lalitpur, Nepal

by Rachana K.C. and Rita Giri

ABSTRACT
Cervical cancer is the second most common cancer in women living in less developed regions. In Nepal, little is known regarding the knowledge of cervical cancer in female young adults. A descriptive cross-sectional study was conducted to find out the knowledge regarding cervical cancer among undergraduate female students. A self-administered questionnaire was used to collect information from a non-probability sample of 150 female students from Little Angels College of Management in Lalitpur, Nepal. The data were analyzed using descriptive and inferential statistics.

Among the respondents, the mean age was 19.3 ± 1.1 years. Almost all (95%) of the respondents had inadequate knowledge regarding cervical cancer. Fifty-six percent of the respondents knew that cervical cancer is preventable. Regarding the preventive measures, good hygiene was identified by 68.5% of respondents followed by HPV vaccine 38.3%, using condom 19.5%, and Pap smear test 8.7%. The knowledge about HPV vaccine was only told by 11.3% of respondents. There was no statistically significant association between knowledge with selected variables (age, religion, ethnicity, family income, smoking and sexual practice) in the study.

Based on the findings, it is concluded that female students had inadequate knowledge regarding cervical cancer. This result reflects the need for health awareness campaigns to the students and community regarding cervical cancer, including the symptoms, causes, risk factors and preventive measures.

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HPV infection. Therefore, in this study, undergraduate female students were chosen as a sample, as they fall in an age group eligible for the HPV vaccine and are a group where the risk of acquiring HPV infection is high. This study explored the knowledge about various aspects of cervical cancer. The results could play an important role in determining knowledge gaps that exist and, therefore, help in designing health education messages about cervical cancer.

**METHODOLOGY**

A descriptive cross-sectional study was carried out to identify the level of knowledge regarding cervical cancer among adolescent females at Little Angels College of Management located at Lalitpur, Nepal. The study population was 150 undergraduate female students who were selected using a non-probability sampling approach. Data were collected using a structured self-administered questionnaire that was developed from the literature. Twenty-one correct/incorrect questions were distributed to measure the knowledge level and one score was given to a correct answer. The 21-item questionnaire collected information on socio-demographic characteristics, knowledge of cervical cancer, and sexual practice. The following criteria were set for the scoring of the level of knowledge: Inadequate Knowledge – Below 50%; Moderate Knowledge – 50–74%; Adequate Knowledge – 75 % and above.

Data were collected over a period of 10 days in the month of October 2016. Questionnaires on paper were distributed individually in the classroom maintaining anonymity. Participation in the study was voluntary and written informed consent was obtained from respondents prior to their participation. Ethical approval was taken from Nepal Health Research Council.

The data collected were entered and analyzed using Statistical Package for Social Sciences (SPSS version 23). There were 10 knowledge-related questions for cervical cancer; one point was awarded for every correct response. ANOVA was used to test the associations between categorical variables. The level of significance was set at 0.05.

**RESULTS**

Table 1 shows that most (95.3%) of the respondents had inadequate knowledge regarding cervical cancer.

Among the respondents, 56% answered correctly the meaning of cervical cancer. Likewise, half (50.7%) of the respondents knew about the risk factor of cervical cancer as multiple sexual partners. On an average, 35% of the respondents had the knowledge regarding risk factors.

Respondents were asked to indicate which, out of five options, were the signs and symptoms of cervical cancer. Table 3 shows that 68.2% answered any unusual discharge from vagina followed by excessive bleeding during periods (28.4%), and bleeding between menstruation (26.4%). A minority (14.9%) answered as bleeding after sexual intercourse.

Table 4 illustrates that more than half (63.3%) of the respondents stated that cervical cancer can be prevented. A majority (68.5%) knew about the preventive measures as good hygiene, while just above two-fifths of the respondents stated taking fluids and a sample from the cervix as the screening approach for cervical cancer. Thirty percent had average knowledge on preventive measures.

As shown in Table 5, most (88.7%) of the respondents didn’t know about the HPV vaccine. Similarly, most of them (92.6%) thought only females were eligible for the vaccine. Likewise,
34.8% of respondents thought that the HPV vaccine is available paying on private hospital, and the majority (44.7%) didn’t know about the recommended age group for vaccine. Table 6 shows very few (4%) of the respondents were involved in a sexual relationship.

Table 7 reveals that there is no statistical significant relationship between knowledge regarding cervical cancer and the selected variables with 95% confidence interval (CI).

**DISCUSSION**

This study is limited to female undergraduate students of Little Angels College of Management, Lalitpur, Nepal. Findings of this study revealed poor knowledge regarding cervical cancer among female undergraduate students even though cervical cancer is the leading cause of cancer deaths among women in Nepal. The findings were similar to the study conducted in Saudi Arabia and India where 98% and 95.7% of the participants respectively had a low level of knowledge regarding cervical cancer (Al-Sheikh et al., 2014; Saha et al., 2010).

Findings of this study showed that more than half of the respondents correctly answered the meaning of cervical cancer, which was similar to the finding seen in Australia (Rao, Heathcote, Jackson, & Rousseau, 2015).

Similarly, only a minority of the respondents identified PAP smear as the preventive measure in this study. This is similar to the study conducted in India, where only 11% knew about the PAP smear as a preventive measure. There is a need to increase health awareness programs in order to strengthen their knowledge (Al-Sheikh et al., 2014).

In this study, the majority of the students did not know about the HPV vaccine. The finding is supported by a similar study conducted in Johannesburg, South Africa and Kuala Lumpur where 88.2% and 73.7% of participants respectively did not know that there is a vaccine to prevent cervical cancer (Rashwan, Ishak & Sawalludin, 2013; Kalau, 2012).

In this study, there was no association seen between knowledge and age. In India, knowledge was associated with age, where high knowledge regarding cervical cancer was seen among the students above 20 years of age and low knowledge was seen among the students less than 20 years (Saha et al., 2010). Similarly, in the present study, there was no association between family income with knowledge. This is in contrast to a study carried out in Johannesburg, South Africa, where knowledge was found to be high among the students with high socioeconomic status and low among low economic status students (Rashwan, Ishak, & Sawalludin, 2013).
CONCLUSION

In this study, the majority of undergraduate female students had inadequate knowledge regarding cervical cancer. In particular, knowledge about preventive measures and the HPV vaccine is lacking among female students. Therefore, awareness regarding cervical cancer and its preventive measures, especially the PAP test and HPV vaccine, should be focused in Nepal for the prevention of cervical cancer.

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REFERENCES


