EFFECTIVENESS OF PLANNED TEACHING PROGRAMME ON KNOWLEDGE REGARDING CERVICAL CANCER AMONG WOMEN

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ABSTRACT

Objectives: To determine the effectiveness of planned teaching programme (PTP) on knowledge regarding cervical cancer among women at selected urban area Karad and to find out the association between knowledge scores with selected sociodemographic variables among women in selected urban areas at Karad.

Methods: Evaluative research approach was used for the study and conducted in urban area Koyana Vasahat, Karad, Maharashtra, India, using one group pre- and post-test design. Systematic proportionate sampling technique was used for selecting 60 women. On the 1st day, a structured knowledge questionnaire was used for collecting data, and PTP on knowledge regarding cervical cancer was conducted, followed by posttest on the 7th day. The data collected, tabulated, and analyzed in terms of objectives of the study using descriptive and inferential statistics.

Results: The mean pretest value was 7 and the mean posttest value was 11 with a difference of 4. The paired t-value was 10.2, (p<0.05) showing a significant increase in the knowledge regarding cervical cancer and its prevention. There was no significant association between knowledge scores of women with the selected demographic variables.

Conclusion: The study showed that the PTP on cervical cancer was effective in improving the knowledge of women and thus helps them to understand the harmful effects of cervical cancer as well as to take necessary steps for early detection and prevention.

Keywords: Effectiveness, Planned teaching programme, Cervical cancer, Knowledge, Women.

INTRODUCTION

Cancer is a group of diseases characterized by the uncontrolled growth and spread of abnormal cells. If the spread is not controlled, it can result in death [1]. Cervical cancer is one of the leading causes of cancer in women worldwide. One way by which the incidence of this malignant disease can be minimized is by imparting knowledge through health education [2].

Cervical cancer is the fourth most common cancer in women, and the seventh overall, with an estimated 528,000 new cases in 2012. There were an estimated 266,000 deaths from cervical cancer worldwide in 2012, accounting for 7.5% of all female cancer deaths. Almost nine out of 10 (87%) cervical cancer deaths occur in the less developed regions. Mortality varies 18-fold between the different regions of the world, with rates ranging from <2 per 100,000 in Western Asia, Western Europe, and Australia/New Zealand to more than 20 per 100,000 in Melanesia (20.6), middle (22.2), and Eastern (27.6) Africa [3].

Cervical cancer is the most common gynecological cancer and is the most common cause of death from cancer among women in Thailand, and in almost all patients, the human papillomavirus (HPV) has been found [4].

In India, the incidence of cancer shows that 8 lakh new cases/year, 24 lakh prevalent cases, tobacco-related cancers amenable for primary prevention (48% in men and 20% in women), 13% of cancers in women (uterine cervix) can be screened and prevented [5].

Nearly 500,000 new cases of cervical cancer occur globally annually, 83% are in the developing world, as are 85% of the 274,000 deaths associated with cervical cancer [6].

The current Indian population is 1,270,272,105 (1.27 billion). The incidence of cancer in India is 7,090 per 1,00,000 populations and cancer prevalence is established to be around 2,500,000 (2.5 million) with over 800,000 new cases and 5,50,000 deaths occurring each year. More than 70% of the cases present in advanced stage accounting for poor survival and high mortality. About 6% of all deaths in India are due to cancers which contribute to 8% of global cancer mortality. The annual global incidence of carcinoma cervix is approximately 500,000 cases and India contributes about one-fifth of the burden, i.e., 100,000 cases annually. The impact of cancer in India is far greater than mere number of cancer cases. Its diagnosis causes immense emotional trauma and its treatment a major economic burden [7].

Dutta (2006) revealed contrast to most other cancers, cancer of the cervix affects mainly younger women, with 60% of cases occurring in women aged 50 or younger. However, cervical cancer can be prevented using a simple test - the cervical smear test. Hence, educating the middle-aged women regarding early detection and prevention of cancer cervix will help to prevent the mortality and morbidity rate of middle-aged women [8].

A lack of knowledge about HPV and low levels of understanding of HPV vaccination have direct implications for women's participation...
in cervical screening. Despite this, the importance of health education as an integral part of primary prevention for cervical cancer is often ignored [9].

Cervical cancer is a leading cause of morbidity and mortality among women in the low and middle-income countries (LMICs). Of 500,000 new cervical cancer cases diagnosed annually worldwide, 83% occurred in LMICs where more than 80% are diagnosed at advanced stage and have poor treatment outcomes. Lack of awareness of risk factors and symptoms for cancer may lead to late diagnosis and poor prognosis [10].

Challenges to cervical cancer screening programs include low public awareness, cost, and access to services. Programs also face shortages of equipment, trained personnel, and clinic and laboratory space, which result in delays in service provision and a general lack of screening coverage on the population level [11].

Problem statement
"Effectiveness of planned teaching programme (PTP) on knowledge regarding cervical cancer among women at selected urban area at Karad."

Objectives
1. To assess the pretest knowledge scores regarding cervical cancer among women in selected urban area at Karad.
2. To determine the effectiveness of PTP on knowledge regarding cervical cancer among women at selected urban area at Karad.
3. To find out the association between knowledge scores with selected sociodemographic variables among women in selected urban area at Karad.

Assumption
The study assumes that women possess some knowledge regarding cervical cancer. PTP will help to increase the knowledge and awareness regarding cervical cancer.

Hypothesis
H1: The mean post-test knowledge scores of women regarding cervical cancer will be significantly higher than that of their mean pretest knowledge scores 0.05 levels of significance.
H2: There will be a significant association of knowledge scores of women with selected demographic variables.

METHODS
In view of the nature of the problem selected for the study and objective to be accomplished evaluative research approach was considered. The research design adapted for the study was one group pre- and post-test design. Independent variable of the study was PTP for women regarding cervical cancer, and knowledge scores as measured by structured questionnaires was dependent variable. The study was conducted in urban area at Koyana Vasahat, Karad, Maharashtra, India. Systematic proportionate sampling technique was used for selecting 60 women as a sample of the study. After an extensive review of literature and with the help of experts structured knowledge questionnaire was prepared to assess the level of knowledge of women regarding cervical cancer.

The tools consist of two sections:
Section 1: Demographic variables - age, education, occupation, income, religion, and type of the family.
Section 2: Structured knowledge questionnaire regarding cervical cancer.

Method of data collection
Ethical approval was obtained from the Institutional Ethics Committee. On the day of pretest, at the very beginning, the women were explained the purpose of the study and informed written consent was obtained from each woman. Pretest was conducted on 17.03.2015 to assess the existing level of knowledge of women regarding cervical cancer followed by PTP on cervical cancer was conducted with the help of lesson plan and A.V. aids (charts and posters). Posttest was conducted on 24.03.2015 by administering the same knowledge questionnaire. Women actively participated and cooperated during data collection.

Plan for data analysis
The data obtained was analyzed in terms of the objective of the study using descriptive and inferential statistics. The plan of data analysis was developed under the excellent direction of experts in the field nursing and statistics.

The plan of data analysis was as follows:
1. Organization of data in a master sheet.
2. Tabulation of data in terms of frequency, percentage, mean, standard deviation (SD), median, and range to describe the data.
3. Classifying knowledge scores using mean and standard deviation (SD) as follows:
   (SD+X)=Good
   (SD+X)-(SD-X)=Average
   (SD-X)=Poor
   A score of one was awarded to all correct answers while score of zero was awarded to all incorrect answers of structured questionnaire.
4. Inferential statistics were used to draw the following conclusions: Paired t-test was used for testing effectiveness of PTP on knowledge of women, and Chi-square test was used to find association.

RESULTS
Section A: Distribution of women according to sociodemographic variables.

The data presented in Table 1 shows that maximum numbers of 20 (33.3%) women were in the age group 25-34 years, 33 (55%) belongs to Hindu religion. The majority of 30 (50%) were studied up to
Section A: The study was conducted among women in between the age group of 35-55 years selected by purposive sampling technique. Results show that among 60 women 48 (80.0%) had a low level of knowledge in pre-test and no one had low level of knowledge in posttest. 12 (20.0%) of women had moderate level of knowledge in pretest and 32 (53.3%) had moderate level of knowledge in posttest. No one had high level of knowledge in pre-test and 28 (46.7%) had high level of knowledge in posttest. Hence, the structured teaching programme was effective in the sample respondents [8].

A study was conducted was for evaluation of an educational program on cervical cancer for rural women in Mangalore, Southern India. A quasi experimental one group pre- and post-test design was adopted. 30 women were selected using nonprobability convenience sampling technique. Results show that the mean knowledge score of the pretest was 6.83 (SD±2.3) and that of the posttest was 14.86 (SD±2.2). The t-value computed between the means of the pretest and the posttest showed that the posttest mean was significantly higher than that of the pretest mean, t (29)=29.8, p<0.05. Analysis of the data using chi-square to find the association between the pretest knowledge score and demographic variables showed that the pretest knowledge score on cervical cancer was independent of all the demographic variables that are age, religion, educational status, occupation, monthly family income, type of family, and source of health information [2].

A similar study was conducted to assess the awareness of cervical cancer among couples; data were collected from two urban slums community in Mumbai. A total of 1958 married women aged from 18 to 49 and their husbands were selected using simple random sampling. Women (37.7%) were significantly more aware of cervical cancer than husbands (8.7%). A slight agreement (kappa statistics=0.16) was observed between husbands and wives on awareness of cervical cancer. Significantly higher percentages of wives were aware of Pap smear test than husbands. Overall, awareness of cervical cancer and Pap smear test among couples is low. There is need to educate and motivate both of them to participate in cervical cancer screening program [12].

CONCLUSION

Results of the study conclude that women knowledge on cervical cancer was inadequate in pre-test after administration of PTP there was a gain in knowledge, so PTP was effective in increasing the knowledge of women regarding cervical cancer.

REFERENCES


### Table 2: Distribution of frequency and percentage of total knowledge scores of women regarding cervical cancer (n=60)

<table>
<thead>
<tr>
<th>Knowledge score</th>
<th>Frequency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good (mean+SD)</td>
<td>Pre-test 24 (40)</td>
</tr>
<tr>
<td>Average (mean±SD) to mean−SD</td>
<td>Pre-test 24 (40)</td>
</tr>
<tr>
<td>Poor (mean−SD)</td>
<td>Pre-test 12 (20)</td>
</tr>
</tbody>
</table>

SD: Standard deviation

### Table 3: Testing of Hypothesis (H1) for evaluation of effectiveness of PTP on knowledge regarding cervical cancer (n=60)

<table>
<thead>
<tr>
<th></th>
<th>Pre-test (X±SD)</th>
<th>Post-test (X±SD)</th>
<th>Paired t-value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7±2</td>
<td>11±1</td>
<td>10.229, p&lt;0.05</td>
</tr>
</tbody>
</table>

PTP: Planned teaching programme; SD: Standard deviation