Prevalence Of Breast Cancer Among High Risk Women In Selected Rural Areas At Puducherry.

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Abstract:
Breast cancer is the leading cause of cancer among women regardless of race and ethnicity. Worldwide 10 million new cases of invasive cancer are diagnosed each year. 10% arise in the breast, which makes it the second most common site of malignant neoplasm after lung (WHO 2001). In India, for the year 2012, about 144,937 women were newly detected with breast cancer and 70,218 women died of breast cancer. The burden of breast cancer in India (18.5%) is increasing. The peak occurrence in developed countries are above the age of 50 whereas in India it is above the age of 40. Descriptive research design was adopted for this study. The population of the study was Women in the age between 40 -60 yrs, residing seliamedu village Puducherry. 7 women with high risk factors of Breast Cancer were undergone Mammogram to confirm the diagnosis of Breast cancer. The data were analyzed through descriptive statistics. The present study revealed that among 200 women, seven women were suspected with high risk factors and out of that seven, two women were diagnosed as breast cancer with the help of Mammogram-the confirmatory diagnostic measure.

Key words: Breast Cancer, Mammogram

INTRODUCTION
Increased incidence of cancer in recent years and its impact on different physical, mental, and social dimensions of human life have turned it to a major problem of the century. The incidence of this disease in developed countries varies from 1 to 2 percent, with almost 5% yearly increase in less developed countries. According to estimates, more than 7 million people globally die from cancer. It is predicted that the number of new cancerous cases rises from 10 to 15 million by 2020. Meanwhile, breast cancer is the most prevalent type of malignant neoplasms among women. Breast cancer is the most common type of cancer among women in the US with the incidence rate of 12.5%. The risk of an individual dying from breast cancer is 1-in-35.

The burden of breast cancer is increasing in both developed and developing countries; the peak occurrence of breast cancer in developed countries is above the age of 50 whereas in India, it is above the age of 40. In India the age standardized incidence rate of...
An urgent need in cancer control today is to develop effective and affordable approaches to the early detection, diagnosis and treatment of breast cancer among women living in less developed countries.

Cancer facts revealed that the age-standardized incidence rate for breast cancer in India is 22.9 per 100,000, one-third that of Western countries and the mortality rates are disproportionately higher. Breast cancer accounts for 22.2% of all new cancer diagnoses and 17.2% of all cancer deaths among women in India.

Breast cancer in urban areas of India is three times higher than in rural parts of the country. According to India statistics, the number of new breast cancer cases is about 115,000 per year and this is expected to rise to 250,000 new cases per year. If discovered early breast cancer can usually be cured; however, early detection through screening is the only way to reduce mortality. The most common screening for the early detection is breast self-examination and mammogram. It has been shown that it reduced the breast cancer mortality by 30% in women aged 50 and older. A descriptive study done at Saudi, found that 56% women were unaware of these changes and some of them are reluctant to go for check-up due to many reasons such as; lack of knowledge, shyness, fears and delay in the treatment leads to complications and death.

**Need for the study**

An increasing trend in its incidence has been observed in most of the metro policies with Mumbai topping the list In India 80,000 new cases are detected every year. Diagnosis in early stages increases surveillance rate. The five-year survival rate is 90% in the 1st stage, 75% in the second stage, 50% in the third stage and <10% in the fourth.

**Objective**

- To assess the prevalence of Breast cancer among high risk women in selected rural areas.

**Methodology**

- Descriptive research design was adopted for this study. The population of the study was Women whose age between 40 -60 yrs residing at seliyamedu village, Puducherry. 200
samples were selected by non-probability convenient sampling technique based on inclusion criteria of Women between the age group of 40 yrs to 60 yrs and available at the time of data collection with informed consent. The demographic variables were collected from the samples followed by breast examination was done to all the samples. The suspected high risk women had undergone mammogram to confirm the diagnosis of Breast cancer. The data were analyzed through descriptive statistics. The present study reveals that among 200 women, two women were diagnosed as breast cancer with the help of Mammogram -the confirmatory diagnostic measure.

Table 1 Prevalence Of Breast Cancer Among High Risk Women

<table>
<thead>
<tr>
<th>S.No</th>
<th>Result of Mammogram</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Positive</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Negative</td>
<td>5</td>
<td>2.5</td>
</tr>
</tbody>
</table>

Out of 200 samples, 7 women were categorized as high risk for breast cancer. The Present study findings revealed that, out of 200 samples, 2 of them had diagnosed as Breast Cancer with the Result of Mammogram. Women who were diagnosed as Breast Cancer had risk factors of aging, dietary pattern, early Menarchae, early marriage, Family History of Cancer, Early Menopause.

Results

Major findings

- The above table depicts that among 200 women, 7 (3.5%) had undergone mammogram. Out of 7 high risk women 1% women between the age of 40-60 years, were diagnosed as Breast cancer by the confirmatory result of Mammogram.
- Out of 200 samples, 7 women categorized as high risk for breast cancer. The Present study findings revealed that, among 200 samples, 2 of them had positive Result For Breast Cancer.
Women who were categorized as Breast Cancer they had risk factors of aging, dietary pattern, early Menarche, early marriage, Family History of Cancer, Early Menopause.

Conclusion

The study concluded that 2% of women diagnosed as breast cancer. The responsibility of the health care professional is to create awareness among the women regarding the risk factors, early diagnosis and management.

References

