

*Original Article****Studying Knowledge, Attitude and Behavior of Breast Cancer Screening Methods among Behshahr Dwelling Women***Seyed Abdolhasan Naghibi¹ *Davood Shojaizadeh² Ali Montazeri³ Jamshid Yazdani Cherati⁴

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Abstract

Background and purpose: Breast cancer is the most prevalent cancer among all widespread cancers worldwide. After lung cancer, breast cancer is the main cause of death among women. One of the best ways to detect this disease early is to do screening. This study has been done to analyze the knowledge, attitude, and behavior of women regarding the breast cancer screening methods.

Materials and Methods: The study is of cross-sectional descriptive type. The participants were 500 Behshahr dwelling women above 20 years old selected based on cluster sampling. The instrument used was a 34-item questionnaire to investigate the knowledge, attitude, and behavior of the women. The data has been analyzed through inferential statistical methods.

Results: The participants' age mean was 35.16. The average knowledge score of the disease and screening methods was 1.3 and 54.6. The average attitude score of was 82.5. Regarding behavior, 13.1 percent do regular self-examination, and 15.2 percent do regular clinical examination. 16.7 percent of women have one experience of doing mammography. In the present study, there was a significant relation among knowledge, attitude and behavior.

Conclusion: Since the knowledge of women was at average level and the behavior of using the screening methods was weak, planning to enable and motivate women to use the screening methods is highly emphasized. [*Naghibi A. Shojaizadeh D. Montazeri A. Yazdanicherati J. **Studying knowledge, Attitude & Behavior of Breast Cancer Screening Methods among Behshahr Dwelling Women. IJHS 2013; 1(2):75-82** <http://jhs.mazums.ac.ir>

Key words: Knowledge, Attitude, Behavior, Screening, Breast Cancer

1. Introduction

Breast cancer is the most prevalent cancer among all widespread cancers in the world. After the lung cancer, breast cancer is the main cause of death among women (1, 2). In the developed countries, one woman out of 8 to 12 women is afflicted with this cancer (3). Breast cancer in Iranian women is still in the front rank (4). According to the report of the ministry of health in 1387, 8424 people have been afflicted with breast cancer, and the crude rate of the disease has been 24.66 thousands percent and the age specific rate has been reported 33.21 thousands percent(5). If breast cancer is identified early, more than 90 percent of the afflicted people can be cured (6). One of the best ways of early detection of the disease is screening (7). The screening ways of disease identification include: breast self examination, clinical breast examination by the doctor or a health visitor, and mammography (1). Breast self examination is a cheap and simple way and leads to the individual's of the breast cancer (8). In clinical breast examination, about 60 percent of the cancer causes are identified. The recent studies show that the clinical breast examination has about 54 percent sensitivity and the property of 94%(1). Mammography is the most effective way of early detection of breast cancer (9). Montazeri has reported that the Iranian women's self examination is 17 percent (1). In Nigeria, it was reported 24 percent and in Malaysia 17 percent (10, 11). The studies of CBE in Iran was 4-20 percent, (12,13) and in Turkey it was 14,1 percent(14). According to the studies, in Iran the mammography rate was 3-6,5 percent (15,16)

and in Malaysia was 13.6 percent(17). Most studies in Iran reported the rate of Iranian women's of the cancer screening ways relatively low, in that, in the study of Salimpormehr, the of women was 33.3 percent, in that of Dadkhah, 14%, in that of Mazloomi it was good at 38.3 percent (12,18,19). In the study of Montazeri, 64 percent of women have stated the unfamiliarity of the way to do it as the reason of not performing the breast self examination. Also in many studies, the rate of Iranian women's has been reported positive. Rate of women in the study of Naghibi was reported positive at 76.4%, in Raesi 72.6% and in AlaieNezhad 78% (20,21,22). Since using screening ways has a significant role in preventing and controlling the women breast cancer, women and attitude towards early detection plan of breast cancer to perform the health Behavior is necessary. This study has been done to investigate the, attitude and Behavior of Behshahr women regarding the screening ways of breast cancer.

2. Materials and Methods

The study is of the sectional descriptive type. The participants were 500 women of Behshahr aged more than 20 years selected based on cluster sampling. Sampling started after 10 blocks from the main square of the city to four directions, east, west, south, and north. The samples are divided equally in 4 directions. The material was a 34-item questionnaire including 8 questions for demography, 10 questions for of the disease and the screening way of breast cancer, 10

questions for women attitude towards the screening way of breast cancer, 6 questions for Behavior of screening ways in the study samples. The options of the questionnaire for of the study samples include: yes, no and I don't know, and the scores are 1,-1,0 respectively. In the Likert-scale questions with 5 options for attitude, the options based on the type of questions (direct or reverse) include: Strongly agree 5, Agree 4, neither agree nor disagree 3, Disagree 2, strongly disagree 1. In order to study the Behavior of screening ways of breast cancer which includes breast self examination, clinical examination by doctor and health visitors, and mammography, the yes, no options and 1,0 scores were utilized. For the validity of the questionnaire, expert validity has been used. The reliability was estimated through Cranach's Alpha reliability. The estimation of from the questionnaire has been 78%, of attitude 81% and of Behavior 83%. The data collected was calculated through SPSS 19. Software and through descriptive statistics; and to study the effect of other variables regression logistics and Pearson correlation were utilized. Finally, the one tail analysis of variance was analyzed.

3. Results

The results of the study show the average age of the women under the study was 35.16, concerning marital status, 85.7% were married and 7.4 % were single. Most of the women, 79.9% were housewives, 11.2% had jobs. The average age of starting their period was 13.75 ± 1.48 . The average age of their first pregnancy was 20.9 ± 4.7 , and the average age of menopause was 48.51 ± 5.3 . Regarding education, 13.9% of the women have education at 3rd guidance school, 55.45 at

diploma and super-diploma, and 13.5 % above super-diploma. 9.6% had the record of breast diseases. Moreover, 8% of the women had the record of benign breast cancer among their first- degree relatives, 12% of women had record of breast cancer in the second-degree relatives. The results of the study show that the average of women of the disease and breast cancer screening ways as 54.6 ± 1.3 with confidence interval of 95% has been (51.98, 57.25). In this study there was no positive relationship between and women demographic properties. Based on the results of the study, there was a significant relationship between and the record of breast diseases in people ($P=0.05$). The women with previous record of breast diseases has been 62.5 ± 1.3 , and women without record of breast diseases has been 53 ± 2.3 . By Pearson test, there was a positive relationship between the two variables, and women attitude, in that the increase in is effective in positive attitude ($P<0.0001$). Based on the regression logistic test, there was a meaningful relationship between and behavior of women in breast self examination, in that with one score increase in awareness, there will be 2% chance of doing self examination. Also, regression logistic test shows a meaningful statistical relationship between and behavior of breast clinical examination, in that with one score increase in awareness, 1.3% chance of doing clinical examination increases (table 1). Based on the results of the study, the average score of attitude 82.5 ± 0.5 with confidence interval of 95 has been (81.42, 83.58). For women's attitude towards the screening ways, 86.4% were strongly agree and agree answering the item "I believe through screening any kind of benign lump (mass) can be identified and cured timely". Answering the item "I believe

the fear from identification hinders the screening", 89.2% were strongly disagree and disagree. Answering the item "I believe doing screening ways should be taken seriously", 74.7% were strongly agreed and agree. Table 2 shows the number and percent of every option related to women attitude towards the cancer screening ways. Regarding the relationship between attitude and variables of demography, there was a meaningful statistical relationship only between attitude and literacy. People with low literacy level, the attitude score was much lower. Using one tail variance analysis $P=0.038$ with Benfroni's post-test showed that the women with low literacy level had lower attitude scores compared with others. Considering the relationship between attitude and Behavior of using screening ways, the results of the study showed that there was a meaningful relationship between attitude and breast self examination. Through regression logistic test, for every one score increase in attitude, 3% chance of doing breast self examination increases. There was also a meaningful statistical relationship between attitude and

breast clinical examination. Based on the regression logistic test, with one score increase in attitude, the chance of clinical examination increases to 4%, In addition, using regression logistic, there was a meaningful relation between attitudes and doing mammography. With one score increase in attitude, the chance of doing mammography increases to 2.3 %. The results of the study show the relationship between the Behavior of using screening ways and variables of demography and other variables. There was a positive relationship between the Behavior of breast self examination of married ($P<0.029$) and record of breast diseases in individuals ($P<0.0001$). There was a positive relationship among the Behavior of mammography of educated women ($P<0.013$) and people with record of breast diseases ($P<0.001$) and people with record of disease in relatives ($P<0.023$). Using regression logistic test, there was a meaningful relation between the variable of mammography and age, in that with one year increase in age, the chance of doing mammography increases to 4% (Table 1).

Table 1. The percent of reply to the options of attitude in relation with the breast screening ways of women under the study in 2012(N= 500)

variable	recreation	SE	variable independent	p-value	Odds
Knowledge	0.2	0.003	self examination	0.0001	0.02
Knowledge	0.013	0.003	clinical examination	0.0001	0.013
Attitude	0.033	0.008	self examination	0.001	1.034
Attitude	0.4	0.009	clinical examination	0.0001	1.041
Attitude	0.23	0.001	mammography	0.041	1.023

Table 2. The Behavior of breast cancer screening ways in women under the study in 2012 (n=500)

Questions				
- Since I'll never afflict breast cancer, there's no need to do screening way.				
Strongly agree 32.7	Agree 53.8	Neither agree nor disagree 5.6	Disagree 4.6	Strongly disagree 2.4
- I believe through screening, any kind of malign mass will be identified and cured timely.				
Strongly agree 32.7	Agree 53.8	Neither agree nor disagree 5.6	Disagree 4.6	Strongly disagree 2.4
- I won't do screening even if there is possibility of breast cancer.				
Strongly agree 1.8	Agree 5	Neither agree nor disagree 5	Disagree 37.6	Strongly disagree 49.4
- I don't believe in truth of doctors' and health visitors' jobs for examination.				
Strongly agree 1.6	Agree 5.6	Neither agree nor disagree 5.6	Disagree 48.2	Strongly disagree 38
- I don't like to add to my concern doing screening.				
Strongly agree 2.6	Agree 7.4	Neither agree nor disagree 5	Disagree 43.8	Strongly disagree 40.6
- I believe fear from disease mass detection prevents screening.				
Strongly agree 1	Agree 5.4	Neither agree nor disagree 3.8	Disagree 44.8	Strongly disagree 44.4
- The thought of doing screening is shameful.				
Strongly agree 2.8	Agree 13.1	Neither agree nor disagree 8.4	Disagree 42.2	Strongly disagree 32.5
- I believe screening ways should be taken seriously.				
Strongly agree 32.5	Agree 42.2	Neither agree nor disagree 8.4	Disagree 13.1	Strongly disagree 2.8
- I believe lack of time and being busy prevents doing screening.				
Strongly agree 4	Agree 17.6	Neither agree nor disagree 9.2	Disagree 34.7	Strongly disagree 34.3
- I believe indifference and forgetting prevents paying attention to screening.				
Strongly agree 4.4	Agree 23.9	Neither agree nor disagree 8.2	Disagree 36.1	Strongly disagree 26.9

The results of the study about using the screening ways show that they have 53.4% experience of self examination. That only 13.1 % of them do the self examination regularly.

Also, 32.1% of women had record of clinical examination that only 15.2% did it regularly and annually. 16.7% of women had once experience of doing mammography (Table 3).

Table 3. Analyzing recreation variable effect The Behavior of breast cancer screening ways in women under the study in 2012 (n=500)

Questions	percent	number
Record of doing breast self examination		
Yes	53.4	268
No	46.6	234
The time interval of breast self examination		
Regular	13.1	64
Irregular	39.8	200
The record of breast clinical examination		
Yes	23.1	161
No	69.7	341
The time interval of clinical examination		
Less than 1 year	15.2	76
1-3 years	17.2	88
The record of doing mammography		
Yes	16.7	84
No	82.5	414
The time interval of mammography		
Less than 1 year	6	30
1-3 years	6.4	32
More than 3 years	4.5	21

4. Discussion

In this study, knowledge, attitude and Behavior of women were studied. Based on the results of the study, the average score was 54.6 ± 1.3 . The rate of women has been at average level. These results were consistent with the study of Yavari, Naghibi and Godazandeh. In Montazeri's study, 64% of Iranian women announced the how to do self examination as the reason of not doing it. In Harrirchi's study, the and Iranian women's attitudes towards the early detection of breast cancer was relatively at appropriate level, (24) while SIM reported low degree of individual of the danger causes, screening and disease cure in Asian women(25). In the study of Jahan, 69.7% of the participants had no about self examination (26). Based on the results of the present study and other similar studies in Iran, it seems that Iranian women's about the screening is relatively low. In this study, there was no positive relationship between and demographic variables. These results are similar to the Naghibi's research (20), but in the study of Godazandeh, Dadkhah, and Besharat, there was a positive relation among age, literacy, marital status, and awareness(23,27,18). In the present study, there is a meaningful relation between only with one's affliction of breast benign diseases. These results are similar to the study of Ziaee far and Bonabian (7). In this study, there was a positive relation between and women attitude towards screening ways, and Behaviour of breast self examination and clinical examination by a doctor that the results conform the study of Naghibi, Ghazanfari (20,16,7) in attitude aspect, and with the study of Farshbaf, Godazandeh, and

Ghazanfari in Behaviour aspect(15,16,23). In Yousuf.SA study, there is a correlation between scores and age, education, family experience and marital status (29). In the present study, the average attitude score has been 82.5 ± 0.5 . The women's attitude towards the breast cancer screening ways has been positive. These results were similar to the studies of Naghibi, Abedzadeh, Reisi and Khani. Regarding the relationship between attitude and demographic variables, the only relation was with literacy which was consistent with the studies of Ghazanfari and Reisi(16,21). 90% of women's attitude was positive in Sara Gilani's study in Pakistan and in Rasmavatinh's study, it was 73.3%. (33) In the present study, the Behavior of regular breast self examination of women has been 13.1%; the regular and annual Behavior of clinical examination was 15.2%; and 16.7% of women had the record of mammography. The Behavior of breast self examination has been reported satisfactory in the study of Farshbaf as 1.8%, Abedzadeh 19.3% (15, 20). In Montazeri's study, the regular self examination of Iranian women was reported as 17%, in Pavsus in Malaysia 19% and Ozkan A.'s in Turkey 32.7%. The Behaviour of clinical examination in Salimipormehr's study has been 4.7%, in SoltanAhmadi's 21.5% and in Naghibi's 20.7%. In the present study, 16.7% of women under the study have had once experience of doing mammography. In this study, there was a relation between age, and mammography which is consistent with Godazandeh's study (23). Due to the difference and dissimilarity in the results of rate, attitude and screening Behavior in Iranian researchers' articles, it can be related

to doing the study in various provinces and cities along with limited samples, using different instruments for assessing awareness, attitude, Behavior, nonstandard measuring devices and different scoring ways. Based on the results of the study, the women of disease and breast cancer screening ways was at average level, but the women's Behavior in using the screening ways has been weak. On the other hand, the most important strategy in preventing and decreasing death by women cancer is using screening ways for this disease. Therefore, it is necessary to act in total programming in order to upgrade the society's general and enabling and motivating women in using screening ways regularly (self examination, clinical examination, mammography).

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