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Breast Cancer Prevention: Assessment of the Knowledge and Practical Measures Employed by Young Female Adults in its Prevention

Suning Teto Francine Laure and Bodzewan Emmanuel Fonyuy*

Registered Nurses-Bamenda, North West Cameroon

*Corresponding Author: Bodzewan Emmanuel Fonyuy, Registered Nurses-Bamenda, North West Cameroon.

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Abstract

Cancer constitutes an enormous burden on society in more and less economically developed countries alike. Breast cancer arises when abnormal cellular growth occurs in certain structures and types of cells within the breast. The occurrence of cancer is increasing because of the growth and aging of the population as well as an increasing prevalence of established risk factors such as alcohol consumption, smoking, overweight, physical inactivity, reproductive and hormonal factors such as long menstrual history, recent use of oral contraceptives, and never having children.

The main objective was to assess the knowledge and practical measures employed by young female adolescents in the prevention of Breast Cancer in the College for Registered Nurses Bamenda.

A sample size of 76 young female adolescents aged 19-35 years from TSSRN Bamenda were recruited. A systematic random sampling method was used to collect primary data with the use of the structured questionnaire designed to obtain responses from the respondents.

Results show that, out of 76 respondents, 89.5% admitted they can differentiate a normal breast from an abnormal breast; among them, 41.3% said that an abnormal breast looks like a palpablehard mass/lump/nodule, 30.8% said breast/nipple larger than normal, 13.5% said asymmetrical breast, This shows that the majority of respondents know how an abnormal breast looks like.

As regards the signs and symptoms of Breast Cancer, 33.1% of the responses said inflammation of the breasts, 31.4% were thickening painless lump/nodules in the breasts on palpation, 15.7% were change in size, shape, and color of the breast, 14.0% were bloody discharges from the nipple.

After close analyses of the data collected, it can be deduced from the results that, 97.4% was aware of Breast Cancer and among those who were aware, 60.6% got it from knowledge acquired from school; 90.8% of them practiced BSE at home but 9.2% did not know how to do it. Almost the majority of respondents have an idea on Breast Cancer definition, predisposing factors, signs and symptoms, preventive measures but just few were not knowledge on Breast Cancer. Even though they have deficit knowledge, they thought that awareness can reduce Breast Cancer incident rate. In addition, 73.1% knew how to examine their breast through BSE and how to prevent Breast Cancer against 1.9% who did not know how to practice BSE at home.

Keywords: Breast Cancer; Knowledge; Prevention; Self-Breast Examination; Nodule; Mammography; Mastectomy

Introduction

Cancer constitutes an enormous burden on society in more and less economically developed countries alike. The occurrence of cancer is increasing because of the growth and aging of the population as well as an increasing prevalence of established risk factors such as alcohol consumption, smoking, overweight, physical inactivity, reproductive and hormonal factors such as long menstrual history, recent use of oral contraceptives, and never having children (Arendt *et al.*, 2010).

Giving birth to children and breastfeeding decrease the risk of breast cancer. Potentially modifiable risk factors include weight gain after 18years, being overweight/obese for post-menopausal breast cancer, uses of menopausal hormone therapy (combined estrogen and progestin), associated with urbanization and economic development. About 14.1 million new cancer cases and 8.2 million deaths occurred in 2012 worldwide. Over the years, the burden has shifted to less developed countries (Hussein A. Assi., 2013).

Breast cancer arises when abnormal cellular growth occurs in certain structures and types of cells within the breast (Arendt., *et al.* 2010). Breast cancer is the most common malignant cancer which occurs in both men and women, but it is far more common in women. Despite variances in risk factors, incidence rate of breast

cancer in young women vary little between countries (Hussein A. Assi., 2013).

Breast cancer is the most frequently diagnosed cancer and the leading cause of cancer death among females worldwide, with an estimated 1.7 million cases and 521,900 deaths in 2012. Breast cancer accounts for 25% of all cancer cases and 15% of all cancer deaths among females. Most developed countries account for about one-half of all breast cancer cases and 38% of deaths. Rates are generally high in Northern America, Australian/New Zealand, Northern and Western Europe; intermediate in Central and Eastern Europe, Latin America, and the Caribbean; and low in most of Africa and Asia. International variation of breast cancer incidence rates reflects differences in the availability of early detection as well as risk factors.

According to the American Cancer Society, breast cancer remains the leading cause of cancer death among females in less developed countries (ACS, 2015). Incidence and mortality rate for breast cancer are decreasing in developed countries while in several less developed and economically transitioning countries, it is increasing because of adoption of unhealthy lifestyle and many environmental factors; breast cancer incidence rate has increased slightly among Africans (ACS, 2013).

According to the National Cancer Institute Surveillance (NCIS), epidemiology and end results data base, 2.7% of breast cancer occurs in women younger than 35 years of age (Deborah, 2008).

According to the latest WHO data published in 2017, breast cancer death in Cameroon reached 1.382/0.63 % of total deaths. The age adjusted death rate is 19.45 per 100,000 of population ranks Cameroon number 62 in the world.

There are several ways to prevent global burden of breast cancer. Firstly, maintaining a healthy body weight, increasing physical activity, minimizing alcohol intake and Breast Self Examination for lumps, tumors, masses, abdominal increase in size, discharges, are the best available strategies to reduce the risk of developing breast cancer. Secondly, early screening of the breast (Mammography) can often detect breast cancer at an early stage, when treatment is more effective and a cure is more likely (however, mammography screening is not perfect. Not all breast cancer will be detected by a mammogram and some Breast cancers that are screen-detected still have a poor prognosis. Sometimes mammography results in false-positive results as well as over diagnosis and overtreatment of some cancer. In spite of these limitations, numerous studies have shown that early detection with mammography save lives and increases treatment options. However, implementation of population-based organized mammography screening programs maybe cost-prohibitive in many less developed countries and is only recommended for those countries with a good health infrastructure

that can afford long-term screening program). Finally, mastectomy can be done to avoid mortality cases from breast cancer. Substantial support for breast awareness and research findings has helped create advances in diagnosis and treatment of breast cancer. Breast cancer survival rate have increased and the number of death associated with this disease is steadily declining, largely due to factors such as earlier detection, a new personalized approach to diagnosis and better understanding of the disease.

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The incidence of breast cancer in Cameroon is on the rise and accounts for a leading cause of mortality. An understanding of the knowledge and practices on Breast Cancer and Breast Self-Examination (BSE) are important first steps which will guide the designing of interventions aimed at raising awareness across the general population. A cross-sectional study was carried out in April 2016 involving 345 consenting female undergraduate students in the Higher Teachers Training College, Bambili, Cameroon.

Research question

What are the practical measures employed by young adults in the prevention of breast cancer?

Study objectives Main objective

To assess the knowledge and practical measures employed by young female adolescents in the prevention of Breast Cancer in the College for Registered Nurses Bamenda.

Specific objectives

- 1. To assess the knowledge of young female adolescents on breast cancer prevention.
- 2. To find out the practices measures employed by young female adolescents in prevention of Breast Cancer.
- 3. To find out the difficulties encountered by young female adolescents in the prevention of Breast Cancer.
- 4. To determine the information young adults need from health care providers to better prevent Breast Cancer.

Hypothesis

Young adults who are knowledgeable on the causes, risk factors, preventive measures and health consequences of breast cancer and who meticulously practice these preventives measures stand on lesser risk of developing Breast Cancer than those who do not.

Significance of the study

The results of this study will bring out the knowledge gaps and the practical measures at the level of self-prevention by young female adolescents; it will equally help the health care providers to lay emphasis on these gaps and prevent the occurrence of Breast Cancer among them in the future.

Methodology

Description of the study site

The study was carrid out in the College for Registered Nurses-Bamenda. It is situated in the Bamenda Health district (Azire Health

Area, Nitop III) of the Bamenda II municipality in the Mezam Division of the North West Region of Cameroon.

The area has an undulating topography with Slopes and Valleys. It shares a common boundary with the Casualty Unit of the Bamenda Regional Hospital. The complex comprises not only the TSSRN Bamenda, but also the Training School for Laboratory Assistants, the Training School for Community Health Nurses and the Midwifery School.

It has the population of about 300 students with 7 classrooms (2018-2019 academic year). The Health Area is bounded to the North by Alakuma and Mulang Health Areas, to the South by Atuakom and Mbachongwa Health Areas, to the East by Ntamulung and Ntabag Health Areas, and to the West by Akumlam Health Area. The TSSRN Bamenda is headed by a Director who is answerable to the Regional Delegate for Public Health. He has as team members the Dean of Studies, the Chief of Finance and the Disciplinary Council Team made up of the staff of the institution.

Study design

The descriptive cross-sectional study design was used, in which the investigator collected data on the knowledge and practical measures employed by female adolescents in the prevention of Breast Cancer and their responses analyzed as per the study objectives.

Study population

The study population was all the young female adolescents aged 19-35 years schooling in TSSRN Bamenda. Those excluded in the study were boys, girls below 19 years, women above 35 years.

Sample size and sampling technique/procedure

A sample size of 76 young female adolescents aged 19-35 years from TSSRN Bamenda were recruited. A systematic random sampling method was used in which every 5th multiple integer value of female students arriving the lecture hall in the morning was recruited for the study and the primary data collection questionnaire administered to them to complete and submit to the investigator.

Pre-testing and validation of tool

Pre-testing was done in the Full Gospel Training School for State Registered Nurses Bamenda because it has the same standard and similar features as the TSSRN Bamenda. This was to ensure that the questions were clear and easily understood by the respondents. After pre-testing, the flaws (poorly framed questions) and lapses (incoherent responses) were corrected and the questionnaire was valid for data collection.

Data collection tool/instrument

The instrument/tool for data collection was structured questionnaires designated to obtain written answers from the respondents. Opened-ended questions were structured to reflect the specific objectives of the study. The questionnaire was divided into sub-sections as follows:

- Section A: Socio-demographic data.
- Section B: To assess the respondents' knowledge on breast cancer.
- Section C: Attitudes and practices of the respondents in prevention of breast cancer.
- Section D: Problems encountered by the respondents in prevention of breast cancer.
- **Section E:** Additional information the respondents need from the health care providers to better prevent breast cancer.

The questions was answered and the information collected by the investigator on the spot.

Data analyses method

The primary data obtained from the respondents were analyzed using Microsoft Word and Microsoft Excel. The results was presented in frequency, tables, pie-charts, bar-charts, etc and interpreted accordingly.

Ethical considerations

In order to carry out this study, Authorization letters were obtained from the Regional Delegation of Public Health for North West Region as well as approvals from the Directors of different schools in the complex. Verbal consent was obtained from the respondents after giving them explanations on the purpose of the study and assuring them of strict anonymity and confidentiality of information collected from them.

Presentation and analysis of results Socio-demographic data

Age of respondents

From table 1, it can be seen that, out of a total of 76 respondents recruited for the study, 58% were within the age range of 20-24 years, 35.5% were within 25-29 years, and 14.5% were within 30-35 years.

Age (years)	Frequency	%
20-24	38	50
25-29	27	35.5
30-35	11	14.5
Total	76	100

Table 1: Distribution of respondents according to age range.

Weight of respondents

From table 2, it can be seen that, out of 76 respondents recruited for the study, 31.6% were within the weight range of 50-59kg, 42.1% were within 60-69Kkg, 17.1% were within 70-79kg and 9.2% were from 80kg and above.

Respondent's marital status situation

From the figure 1, it can be seen that, 26.3% were married while 73.7% were not married. No divorce case was registered.

Weight (kg)	Frequency	%
50-59	24	31.6
60-69	32	42.1
70-79	13	17.1
80 and above	7	9.2
Total	76	100

Table 2: Distribution of respondents according to weight.



Figure 1: Distribution of respondents according to marital status.

Number of Children alive

From the figure 2, 75.0% of respondents were not having children, 17.1% were having 1 child and 7.9% were having 2 children.



Figure 2: Distribution of respondents according to number of children alive.

Respondents knowledge on breast cancer Respondents awareness of breast cancer

The results from figure 3 show that, out of 76 respondents recruited, 97.4% have heard about Breast Cancer while 2.6% have never heard about Breast Cancer.

Source of information

From figure 4, the results shows that 60.6% heard about Breast Cancer in school, 23.4% heard in the hospital, 10.6% heard via media and 5.3% heard from the community.



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Figure 3: Distribution of respondents according to whether they have heard about breast cancer.



Figure 4: Distribution of respondents according to where they heard about breast cancer.

Respondent's definition of breast cancer

From table 3, it can be seen that 55.3% of respondents said that Breast Cancer were an abnormal growth of cells in the breast; 17.6% said the presence of nodule/lump in the breast; 14.1% said tumor of the breast; 8.2% said change in the size/shape of the breast/nipple; 2.4% said pitting/redness of the skin of the breast like the skin of an orange; 1.2% said pain in armpit/breast; and 1.2% said discharge from a nipple, possibly containing blood.

Definitions	Frequency	%
Abnormal growth of cells in the breast	47	55.3
Presence of nodule/lump in the breast	15	17.6
Tumour of the breast	12	14.1
Change in the size /shape of the breast/ nipple	7	8.2
Pitting/redness of the skin of the breast like the skin of an orange	2	2.4
Pain in armpit/breast	1	1.2
Discharge from a nipple possibly containing blood	1	1.2
Total	85	100

Table 3: Distribution of respondents according to
their definition of Breast Cancer.Survey data (Suning, 2019).

Ability to differentiate a normal from an abnormal breast

The figure 5 shows that majority of respondents, (89.5%) said that they can differentiate a normal breast from an abnormal one while 10.5% could not differentiate.



Figure 5: Distribution of respondents according to whether they can differentiate between normal and abnormal breast.

Responses of respondents on how an abnormal breast looks like

From the figure 6, it can be seen that, 41.3% of respondents said that an abnormal breast look like a palpable hard mass/lump/ nodule; 30.8% said breast/nipple enlarge than normal; 13.5% said asymmetrical breast; 11.5% said painful swollen breast; 2.9% said rash on the nipple.



Figure 6: Distribution of respondents according to how they think an abnormal breast looks like.

Responses of respondents on symptoms of breast cancer

From the table 4, 33.1% of the respondents said that symptoms of BC were inflammation of the breast; 31.4% said thickening painless lump/nodule/in the breast on palpation; 15.7% said change in size, shape, and color of the breast; 14% said bloody discharge from the nipple; 2.9% said rashes/lesions of the nipple/breast and another 2.9% said inverted nipple.

Reponses of respondents on causes of breast cancer

From the table 5, 34.1% said they don't know the cause of BC; 29.4% said chemical and exposure to radiation; 23.8% said un-

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Symptoms	Frequency	%
Inflammation of the breast	57	33.1
Thickening painless lump/nodule/ in the breast on palpation	54	31.4
Change in size, shape and colour of the breast	27	15.7
Bloody discharge from the nipple	24	14.0
Rashes/lesions on the nipple/breast	5	2.9
Inverted nipple	5	2.9
Total	172	100

Table 4: Distribution of respondents according totheir knowledge on symptoms of breast cancer.

known; 7.9% said mutation and genetic factors; 4.8% said breast abscess.

Causes	Frequency	%
Do not know	43	34.1
Exposure to chemicals or radiation	37	29.4
Unknown	30	23.8
Mutation and genetic factors	10	7.9
Breast abscess	6	4.8
Total	126	100

 Table 5: Distribution of respondents according to their knowledge on causes of breast cancer.

Responses of respondents on risk factors of breast cancer

From table 6, 23.3% of respondents said that the risk factors of BC are poor life style; 18.0% said chemotherapy/radiation; 16.5% said hormonal factors; 15.8% said family history; 9.8% said high fitting breast wear/breast ironing; 5.3% do not know; another 5.3% said being a woman; 3.0% said no breastfeeding; 1.5% said early menarche; finally 1.5% said tattoo on the breast.

Risk factors	Frequency	%
Poor life style	31	23.3
Chemotherapy/radiation	24	18.0
Hormonal factors	22	16.5
Family history	21	15.8
High fitting breast wear/breast ironing	13	9.8
Do not know	7	5.3
Being a woman	7	5.3
No breastfeeding	4	3.0
Early menarche	2	1.5
Tatoo on the breast	2	1.5
Total	133	100

Table 6: Distribution of respondents according to theirknowledge on the risk factors of breast cancer.

Respondents' practices on breast cancer prevention

Responses of Respondents on if they know measures to prevent Breast Cancer.

From figure 7, the majority of respondents that is 90.8% said that they know measures to prevent BC while 9.2% said they did not know.



Figure 7: Distribution of respondents according to whether they know measures to prevent breast cancer.

Responses of respondents on measures to prevent breast cancer

From table 7, 46.5% of respondents said that the measures to prevent BC is BSE; 22.5% said healthy life style; 16.2% said avoid exposure to radiation; 4.2% said avoid high fitting breast wear; 3.5% said mammography; 2.8% said exclusive breastfeeding; 2.1% said avoid hormonal therapy for menopausal women; 1.4% said avoid deodorant spray and 0.7% said avoid plastic surgery.

Preventive measures	Frequency	%
Breast Self Examination (BSE)	66	46.5
Healthy life style	32	22.5
Avoid exposure to radiation	23	16.2
Avoid high fitting breast wear	6	4.2
Mammography	5	3.5
Exclusive breastfeeding	4	2.8
Avoid hormone therapy for menopausal woman	3	2.1
Avoid deodorant spray	2	1.4
Avoid plastic surgery	1	0.7
Total	142	100

 Table 7: Distribution of respondents according to their knowledge on measures to prevent breast cancer.

Responses of respondents on if they practice BSE at home

From figure 8, 68.4% of respondents said they know how to practice BSE at home while 31.6% said they didn't know.

Responses of respondents on how they practice breast selfexamination

From table 8, 73.1% of respondents said that to practice BSE, lie in supine position/stand straight, left hand behind the occiput,



use the right hand to check the left breast and vice versa, palpate with the palm in a circular manner to check for abnormalities. 25% said observation and palpation of the breast for lump, nodule and any abnormalities. 1.9% said when bathing, they touch or press the breast with fingers.

Responses	Frequency	%
Lie in supine position/stand straight	38	73.1
Left hand behind the occiput		
Use the Right hand to check the left breast		
and vice versa		
Palpate with the palm in a circular manner		
to check for abnormalities.		
Observation and palpation of the breast for lump, nodule and any abnormalities	13	25
When bathing, touch or press the breast with fingers	1	1.9
Total	52	100

Table 8: Distribution of respondents according to howthey practice BSE at home.

Problems/difficulties encountered by the respondents in the prevention of breast cancer

From table 9, 13.3% said they encountered no problem in the prevention of BC, 12.2% said time constraint, 17,8% said not being able to identify normal fatty tissue of the breast with a nodule/lump/mass, 22.2% said difficulties to do BSE properly, 16.7% said forgetfulness, 3.3% said no access to a large mirror, 4.4% said lack of privacy in an overcrowded house, 8.9% said lack of interest and negligence, and 1.1% said fear to discover abnormal nodules.

Information needed from health care providers to better prevent breast cancer

From the table 10, 37% said that they need to have a proper education on Breast Cancer prevention, how to practice BSE properly, how often BSE should be done and the best time to do it. 8.7% said no additional information, 22.8% said that they need to know the real cause of BC and preventives measures other than BSE, 10.9%

said that they need more education on risk factors of Breast Cancer and finally, 1.1% said if Breast Cancer can be treated.

Problems encountered	Frequency	%
No problem	12	13.3
Time constraint	11	12.2
Not being able to identify normal fatty tissue of the breast with a nodule/lump/mass	16	17.8
Difficulties to do BSE properly	20	22.2
Forgetfulness	15	16.7
No access to a large mirror	3	3.3
Lack of privacy in an overcrowded house	4	4.4
Lack of interest and negligence	8	8.9
Fear to discover abnormal nodules	1	1.1
Total	90	100

Table 9: Distribution of respondents according to the problemsthey face in the prevention of breast cancer.

Responses	Frequency	%
Proper education on BC	34	37
How to practice BSE properly at home		
How often BSE should be done and the best time to do it		
No additional information	8	8.7
Real cause of BC	21	22.8
Preventive measures other than BSE		
More education on risk factors of BC	10	10.9
If BC can be treated	1	1.1
Total	92	100

Table 10: Distribution of respondents according to theadditional information they need from the health careproviders to better prevent BC later on in life.

Discussion of Results

Socio-demographic data

It was observed that, the majority of respondents that is 50% were between the age group of 20-24 years. This is obvious because the youths form the bulk of the population in any given community. This is why Rosses (2013) said that age was as an important factor in the prevention of Breast Cancer.

Also, 42.1% were having between 60-69kg while only 9.2% were having 80kg and above. This shows that the weight of the majority was relatively normal and according to Hussein A. Assi (2013), obesity increase risk of Breast Cancer.

Concerning marital status, it was observed that, 73.7% of the respondents were still single while only 26.3% were married.

Also, out of 76 respondents, 75% were not having child, 17.1% were having a child, and 7.9% were having two children. This

shows that it was only the minority who practiced breastfeeding and according to Lancey., *et al.* (2009), breastfeeding has a protective effect against breast cancer.

Respondent's knowledge on breast cancer

According to figure 3, the majority 97.4% of respondents have heard about breast cancer probably because the incidence of Breast Cancer in Cameroon is on the rise and accounts for a leading cause of mortality. This is supported by American Cancer Society (2015) which stated that, Breast Cancer remains the leading cause of cancer death among females in less developed countries.

From figure 4, out of those who heard about Breast Cancer, 60.6% have heard about it in school, this is probably because the module pathology is taught from Year two and Breast Cancer features under reproductive system pathologies and cells and tissues pathologies.

From table 3, it was observed that, a greater proportion of respondents 55.3% knew the definition of Breast Cancer as an abnormal growth of cells in the breast, 17.6% said that it is the presence of nodule/lump in the breast, 14.1% said tumor of the breast, 8.2% said change in the size/shape of the breast/nipple, 2.4% said the pitting/redness of the skin of the breast like the skin of an orange, 1.2% said discharges from the nipple possibly containing blood. This shows that the majority of the respondents had an idea about Breast Cancer. This is in line with the National Cancer Institute (2011) that defined Breast Cancer as a Cancer that forms in the tissues of the breast. Also, American Cancer Society defines Breast Cancer as cancer that starts when cells in the breast begin to grow out of control. These cells usually form a tumor that can often be seen on an x-ray/felt as a lump (ACS, 2017).

From figure 5, it was observed that, out of 76 respondents, 89.5% admitted that they can differentiate a normal breast from an abnormal breast. Among them, 41.3% said that an abnormal breast looks like a palpable hard mass/lump/nodule, 30.8% said breast/nipple larger than normal, 13.5% said asymmetrical breast, 11.5% said painful swollen breast, 2.9% said rash on the nipple. This shows that the majority of respondents know how an abnormal breast looks like.

As regards to the signs and symptoms of Breast Cancer, 33.1% of the responses were inflammation of the breast, 31.4% were thickening painless lump/nodules in the breast on palpation, 15.7% were change in size, shape, and color of the breast, 14.0% were bloody discharges from the nipple, 2.9% were rashes/lesions on the nipple/breast, 2.9% were inverted nipple. This is supported by the center for disease control and prevention who said that the possible signs and symptoms of Breast Cancer include: -Lump in the Breast/ Armpit

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- A thickening/ swelling of Breast
- Dimpling of the Breast/ Skin irritation
- Red/ Flacky skin in the nipple area
- Nipple discharge other than Breast milk
- Intense pain in the Breast
- A change in the skin texture or an enlargement of spores in the skin of a Breast (Orange peels texture).
- Nipples that is turned/ inverted nipples
- A palpable mass in the Breast
- Eczema like changes on/around areola.

Concerning the causes of Breast Cancer, 34.1% of responses were empty, meaning that the majority don't know what cause Breast Cancer this maybe because the exact cause of Breast Cancer remains unclear. This was supported by the National Breast Cancer Foundation (2016) who stated that "no one knows the exact causes of Breast Cancer.

According to table 6, out of 76 respondents, 23.3% of responses were poor lifestyle, 18.0% were chemotherapy/radiation, 16.5% were hormonal factors, 15.8% were family history, 9.8% were high fitting breast wear/breast ironing, 5.3% of responses were empty meaning that they have no idea, 5.3% were being a woman, 3.0% were breastfeeding, 1.5% were early menarche, and 1.5% were tattoo on the breast. This shows that Breast Cancer predisposing factors is divided into modifiable and non-modifiable. This was supported by CDC (2018) that states that risk factors for Breast Cancer include risk factors that you can change and the risk factors that you cannot change.

Preventive and practical measures

According to figure 7, the majority of respondents that is 90.8% said that they know measures to prevent Breast Cancer against the minority of 9.2% who said they don't know. From table 7, 46.5% responses were BSE, 22.5% were healthy lifestyle, 16.2% were avoid exposure to radiation, 4.2% were avoid high fitting breast wear, 3.5% were mammography, 2.8% were exclusive breastfeeding, 2.1% were avoid hormone therapy for menopausal woman, 1.4% were avoid deodorant spray and 0.7% were avoid plastic surgery. This shows that the majority of respondents know measures to prevent Breast Cancer for, prevention is better than cure.

From figure 8, 90.8% of respondents practice BSE at home and only 9.2% do not; according to National Breast Cancer Foundation reports (2014), all adults women of all ages are encouraged to perform BSE at least once a month.

As regard how the BSE can be practice to prevent Breast Cancer, 73.1% of the responses were: lie in supine position/stand straight left hand behind the occiput, use the right hand to check the left breast and vice-versa, palpate with the palm in a circular manner to check for abnormalities, 25% of responses were: observation and palpation of the breast for lump, nodule, and any abnormalities, 1.9% of responses were: when bathing, touch/press the breast with fingers. This shows that the majority know how to practice BSE.

Difficulties faced in the prevention of breast cancer

Concerning the difficulties faced by the respondents in the prevention of Breast Cancer, 13.3% of the respondents said no problem, 12.2% said time constraint, 17.8% not being able to identify normal fatty tissue of the breast with a nodule/lump/mass, 22.2% said difficulties to do BSE properly, 16.7% said forgetfulness, 3.3% said no access to a large mirror, 4.4% lack of primary in an overcrowded house, 8.9% said lack of interest and negligence, 1.1% fear to discover abnormal nodules. This show that the respondents need to be updated on preventives practices which can help to reduce the incidence of Breast Cancer in the future.

Additional information to enhance care providers

As regards additional information to be provided by the state holders/ministry of public health to enhance proper prevention of Breast Cancer, 37% said they need: proper education on BC, how to practice BSE properly at home, how often BSE should be done and the best time to do it, 8.7% said no additional information, 22.8% said real cause of Breast Cancer and preventive measures other than BSE, 10.9% said more education on risk factors of Breast Cancer, 1.1% if Breast Cancer can be treated [1-43].

Conclusion

After close analyses of the data collected, it can be deduced from the results that, 97.4% was aware of Breast Cancer and among those who were aware, 60.6% got it from knowledge acquired from school; 90.8% of them practiced BSE at home but 9.2% did not know how to do it. Almost the majority of respondents have an idea on Breast Cancer definition, predisposing factors, signs and symptoms, preventive measures but just few were not knowledge on Breast Cancer. Even though they have deficit knowledge, they thought that awareness can reduce Breast Cancer incident rate. In addition, 73.1% knew how to examine their breast through BSE and how to prevent Breast Cancer against 1.9% who did not know how to practice BSE at home.

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