Breast Cancer Screening: Knowledge, Attitude and Practice of Female Youths in Lugbe Community of Abuja Nigeria

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Abstract: More than one million women are diagnosed with breast cancer worldwide each year and over half of whom will die from the disease. The most common cancer and the leading cause of cancer death for women has been Breast cancer. Although, the prognosis of breast cancer has been improved via extensive breast cancer screening programmes and the development of new treatments. The goals of studies that focus on the early diagnosis and treatment of breast cancer have not yet been achieved and therefore, it is recognized that even among young people, knowledge about breast cancer is inadequate and the inadequacy of knowledge and practice make early diagnosis and effective treatment difficult. This study aimed at assessing Knowledge, Attitude and practice of young female in Lugbe community of Abuja, Nigeria. Three hundred and seventeen female youth participated in this cross-sectional descriptive study. Participants were recruited using Simple random sampling technique. A 52-item questionnaire on the self-reported knowledge, attitudes and practices towards breast cancer screening was formulated and used for data collection. A large proportion of the participants are between the age 21-25 (49.8%). About three quarter 241 (76%) of the respondents were single. This study revealed that 67.8% (215) of the respondents have good knowledge towards breast cancer screening while 32.2% (102) have poor knowledge about breast cancer screening, 80.1% (254) of the respondents have good attitudes towards breast cancer screening while 19.9% (63) have poor attitudes towards breast cancer screening and only 12.6% (254) of the respondents have good practices towards breast cancer screening while majority 87.4% (277) have poor practices towards breast cancer screening. There is a statistically significant association between marital status, highest educational level, occupation of female youths and knowledge about breast cancer screening while highest educational level, religion, occupation have statistical association with the attitudes of female youths towards breast cancer screening and Age-group, highest educational level have statistical association with practices towards breast cancer screening. This research has shown that majority of female youth have good knowledge and attitude about breast cancer screening but has poor practice towards breast cancer screening. Therefore, schools, community, religion centres and government should design programs that will create better awareness on the importance of breast cancer screening, how it is done, when and where breast cancer screening can be accessed. It is also indispensably important that screening facilities should be provided in primary health care centres to improve availability and accessibility to this essential life-saving service among young female population.

Keywords: Cancer, Youth, Knowledge, Attitude, Practice
1. Introduction

More than one million women are diagnosed with breast cancer worldwide each year and over half of whom will die from the disease [1]. The most common cancer and the leading cause of cancer death for women has been Breast cancer [2]. GLOBOCAN 2012 [3] data revile that breast cancer which is the most frequent cancer among women is the second most common cancer in the world with an estimated 1.67 million new cancer cases diagnosed in 2012 (25% of all cancers). Cancer prevention and early detection are central to the American Cancer Society’s mission to save lives, celebrate lives, and lead the fight for a world without cancer. Cancer incidence has decreased among men over the past several years while remaining stable among women; cancer mortality has declined in recent decades [4].

Implementing evidence-based interventions to reduce cancer risk factors and increase cancer screening uptake can prevent additional cancer morbidity and mortality [5]. The prognosis of breast cancer has been improved via extensive breast cancer screening programs and the development of new treatments. Although, the average 5-year survival rate for women with late stage or advanced breast cancer remain slow. Five years after diagnosis, on average, only 35% of women with advanced breast cancer are alive [6]. One third of women are diagnosed with breast cancer at a late stage 4 when the disease has a poor prognosis. In all types of cancer, Breast cancer ranks as the second cause of death, after lung cancer, and it is the most frequent cause of cancer death in women in less developed regions. Although, it is now the second cause of cancer death in more developed regions too now [7]. Certain risk factors play an important role in breast cancer development which include; breast cancer in first-degree relatives, late menopause, early menarche, and advanced age [8].

The goals of studies that focus on the early diagnosis and treatment of breast cancer have not yet been achieved and therefore, it is recognized that even among young people, knowledge about breast cancer is inadequate [9] and the inadequacy of knowledge and practice make early diagnosis and effective treatment difficult. An important role is played by the patients in screening participation by knowing the survival rate [10]. It is observed that breast cancer death rates increase by 0.4% per year in the United State between 1975 and 1989 but decrease by 39% between 1989 and 2015 averting 322,600 deaths [11]. Lack of participation in breast cancer screening programs may result into late detection. There has been considerable research to ascertain whether this is the case. The high prevalence of breast cancer highlights the need for early detection. In fact, timely diagnosis can promote the available treatment options for affected women and thereby improve the survival rate [12]. Survival in cases with tumors less than 5 cm in size has been reported to be above 98%; as a result, researchers have focused on the early detection of breast cancer [13].

2. Method

A cross-sectional descriptive study design was employed in this study. This study was conducted in a selected Community in Abuja, Federal Capital Territory of Nigeria; the community was Lugbe which is located in the Kabusa ward within the Abuja Municipal Area Council (AMAC) on the eastern wing of the Federal Capital Territory (FCT). It is situated between latitudes 080 55´N to 090 00´N of the Equator and longitudes 070 19´E to 070 26´E. In order to have a representative sample of the study population, in this study, a total of 317 participants (from the weekly community youth meeting) all participated in the study. Simple random sampling method was adopted.

The tools used to collect data from the respondents was Structured-self-administered questionnaires which was evaluated by two public health professionals/researchers and their inputs was incorporated into the final version of the questionnaire. The questionnaire was subjected to a pilot study involving at least 20 participants to validate the data collection tool. Also, the questionnaire comprises four sections A, B, C and D for social demographic data, knowledge of breast cancer and prevention, Attitude towards breast cancer and practice towards breast cancer respectively.

Data collected was analysis using statistical package for social scientists (SPSS version 21) tool for data analysis and Microsoft excel. This was used because they are user friendly. Results were presented using descriptive statistics of tables, pie and bar charts, and Chi-square was used to test the association between various socio-demographic variables and knowledge, attitude and practice of the female youths towards breast cancer screening. All result was set at 0.05 level of significance.

3. Result

Three hundred and seventeen of female youths were interviewed. About half 158 (49.8%) were between the age 21-25 years, 118 (37.2%) were between 26-30 years while 41 (12.9%) were between 15-20 years of age. About three quarter 241 (76%) of the respondents were single while about one-quarter 76 (24%) were married. 279 (88%) of the respondents were in tertiary institutions, while only 38 (12%) were in secondary school level. About 6 in 10- 190 (59.9%) were practicing Christianity religion, while 127 (40.1%) practice Islam. 183 (57.7%) of the female youth respondents were students, 91 (28.7%) were civil servant or professional worker, while 43 (13.6%) were self-employed or a trader.
Table 1. Socio-demographic characteristics of respondents.

| Socio-demographics characteristics | Frequency | Percentage |
|------------------------------------|-----------|------------|
| Age-group                          |           |            |
| 15-20                              | 41        | 12.9%      |
| 21-25                              | 158       | 49.8%      |
| 26-30                              | 118       | 37.2%      |
| Marital Status                     |           |            |
| Single                             | 241       | 76.0%      |
| Married                            | 76        | 24.0%      |
| Highest Educational Qualification  |           |            |
| Secondary                          | 38        | 12.0%      |
| Tertiary                           | 279       | 88.0%      |
| Religion                           |           |            |
| Christianity                       | 190       | 59.9%      |
| Islam                              | 127       | 40.1%      |
| Occupation                         |           |            |
| Student                            | 183       | 57.7%      |
| Civil Servant/Professional         | 91        | 28.7%      |
| Self Employed/Trader               | 43        | 13.6%      |
| Total                              | 317       | 100.0%     |

Knowledge of Female Youths Towards Breast Cancer Screening

Figure 1. Pie chart showing the percentage distribution of good and poor knowledge of female youths towards breast cancer screening. The pie chart above shows that 67.8% (215) of the respondents have good knowledge towards breast cancer screening while 32.2% (102) have poor knowledge about breast cancer screening.

Attitudes of Female Youths Towards Breast Cancer Screening

Figure 2. Pie chart showing the percentage distribution of good and poor attitude of female youths towards breast cancer screening. The pie chart above shows that 80.1% (254) of the respondents have good attitudes towards breast cancer screening while 19.9% (63) have poor attitudes towards breast cancer screening.

Practice of Female Youths Towards Breast Cancer Screening

Figure 3. Pie chart showing the percentage distribution of good and poor practices of female youths towards breast cancer screening. The pie chart above shows that only 12.6% (254) of the respondents have good practices towards breast cancer screening while majority 87.4% (277) have poor practices towards breast cancer screening.

Table 2. Chi-Square analysis showing association between Knowledge of Female Youth towards Breast Cancer Screening and socio-demographic characteristics of the respondents.

| Variables                        | Knowledge Score | Standard Deviation | Range | Minimum | Maximum | Cronbach’s Alpha | No. of Items | Knowledge of Breast Cancer Screening | Chi-square | P-Value |
|----------------------------------|-----------------|--------------------|-------|---------|---------|-----------------|--------------|--------------------------------------|-------------|---------|
| Age-group (in years)             |                 |                    |       |         |         |                 |              | Good n (%)                          | 22 (53.7)   | 4.485   | 0.106   |
|                                  |                 |                    |       |         |         |                 |              | Poor n (%)                          | 19 (46.3)   |          |         |
| 15-20                            |                 |                    |       |         |         |                 |              | Good n (%)                          | 112 (70.9)  | 21.711  | <0.0001* |
| 21-25                            |                 |                    |       |         |         |                 |              | Poor n (%)                          | 46 (29.1)   |          |         |
| 26-30                            |                 |                    |       |         |         |                 |              | Good n (%)                          | 81 (68.6)   |          |         |
|                                  |                 |                    |       |         |         |                 |              | Poor n (%)                          | 37 (31.4)   |          |         |
| Marital Status                   |                 |                    |       |         |         |                 |              | Good n (%)                          | 180 (74.7)  |          |         |
| Single                           |                 |                    |       |         |         |                 |              | Poor n (%)                          | 61 (25.3)   | 21.711  | <0.0001* |
| Married                          |                 |                    |       |         |         |                 |              | Good n (%)                          | 35 (46.1)   |          |         |
|                                  |                 |                    |       |         |         |                 |              | Poor n (%)                          | 41 (53.9%)  |          |         |
| Highest Educational Level        |                 |                    |       |         |         |                 |              | Good n (%)                          | 11 (28.9)   | 4.485   | 0.106   |
| Secondary                        |                 |                    |       |         |         |                 |              | Poor n (%)                          | 27 (71.1)   |          |         |
| Tertiary                         |                 |                    |       |         |         |                 |              | Good n (%)                          | 204 (73.1)  | 29.901  | <0.0001* |
|                                  |                 |                    |       |         |         |                 |              | Poor n (%)                          | 75 (26.9)   |          |         |
| Religion                         |                 |                    |       |         |         |                 |              | Good n (%)                          | 131 (68.9)  | 0.275   | 0.600   |
| Christianity                     |                 |                    |       |         |         |                 |              | Poor n (%)                          | 59 (31.1)   |          |         |
| Islam                            |                 |                    |       |         |         |                 |              | Good n (%)                          | 84 (66.1)   |          |         |
|                                  |                 |                    |       |         |         |                 |              | Poor n (%)                          | 43 (33.9)   |          |         |
| Occupation                       |                 |                    |       |         |         |                 |              | Good n (%)                          | 129 (70.5)  |          |         |
| Student                          |                 |                    |       |         |         |                 |              | Poor n (%)                          | 54 (29.5)   |          |         |
| Civil Servant/Professional       |                 |                    |       |         |         |                 |              | Good n (%)                          | 71 (78.0)   |          |         |
|                                  |                 |                    |       |         |         |                 |              | Poor n (%)                          | 20 (22.0)   |          |         |
| Self Employed/Trader             |                 |                    |       |         |         |                 |              | Good n (%)                          | 15 (34.9)   |          |         |
|                                  |                 |                    |       |         |         |                 |              | Poor n (%)                          | 28 (65.1)   |          |         |

*Significant at 5% level
Table 2 shows that more than two-thirds of respondents in the age-group 21-25 (112, 70.9%) and 26-30 (81, 68.6%) have good knowledge of breast cancer screening while about half (22, 53.7%) of respondents in the age-group 15-20 have good knowledge of breast cancer screening. About two-thirds of Christian and Muslim female students (131-68.9%, and 84-66.1% respectively) have good knowledge of breast cancer screening. There is no statistical association between age-group, religion and knowledge about the breast cancer screening among the female youths (p > 0.05).

There exists a significant higher proportion of singles (180, 74.7%) than married (35, 46.1%) who have good knowledge about breast cancer screening. Higher proportion of female youths in tertiary education (204, 73.1%) have good knowledge of breast cancer screening than secondary female youths (11, 28.9%). More than 7 in 10 of students (129, 70.5%) and civil servant/professional (71, 78.0%) have good knowledge of breast cancer screening while only 15 (34.9%) of self-employed/trader have good knowledge of breast cancer screening. There is a statistically significant association between marital status, highest educational level, occupation of female youths and knowledge about breast cancer screening (p < 0.05).

Table 3. Chi-Square analysis showing association between Attitudes of Female Youths towards Breast Cancer Screening and socio-demographic characteristics of the respondents.

| Variables            | Attitudes towards Breast Cancer Screening | Chi-square | P-Value |
|----------------------|------------------------------------------|------------|---------|
|                      | Good n (%)                              | Poorn (%)  |         |
| Age-group (in years) |                                          |            |         |
| 15-20                | 33 (80.5)                               | 8 (19.5)   | 1.874   | 0.392   |
| 21-25                | 131 (82.9)                              | 27 (17.1)  |          |         |
| 26-30                | 90 (76.3)                               | 28 (23.7)  |          |         |
| Marital Status       |                                          |            |         |
| Single               | 194 (80.5)                              | 47 (19.5)  | 0.087   | 0.768   |
| Married              | 60 (78.9)                               | 16 (21.1%) |          |         |
| Highest Educational Level |                                    |            |         |
| Secondary            | 22 (57.9)                               | 16 (42.1%) | 13.400  | <0.0001*|
| Tertiary             | 232 (83.2)                              | 47 (16.8%) |          |         |
| Religion             |                                          |            |         |
| Christianity         | 170 (89.5)                              | 20 (10.5)  | 26.022  | <0.0001*|
| Islam                | 84 (66.1)                               | 43 (33.9)  |          |         |
| Occupation           |                                          |            |         |
| Student              | 152 (83.1)                              | 31 (16.9)  |          |         |
| Civil Servant/Professional |                                |            |         |
|                     | 85 (93.4)                               | 6 (6.6)    | 55.560  | <0.0001*|
| Self Employed/Trader | 17 (39.5)                               | 26 (60.5)  |          |         |

*Significant at 5% level

Table 3 shows that about 8 in 10 of all the age-groups of the female youths interviewed have good attitudes towards breast cancer screening [33 (80.5%), 131 (82.9%), and 90 (76.3%) for 15-20, 21-25 and 26-30 age-groups respectively]. 194 (80.5%) of singles and 60 (78.9%) of married female youths have good attitudes towards breast cancer screening. Age-group, marital status have no statistical association with attitudes towards breast cancer screening (P > 0.05).

More tertiary female youths 232 (83.2%) than secondary 22 (57.9) have good attitudes towards breast cancer screening. More Christian female youths 170 (89.5%) than Muslim 84 (66.1%) have good attitudes towards breast cancer screening. Students and civil servant/professionals (152, 83.1% and 85, 93.4% respectively) have good attitudes towards breast cancer screening than the self-employed/trader (17, 39.5%). Highest educational level, religion, occupation have statistical association with the attitudes of female youths towards breast cancer screening (P < 0.05).
Breast cancer screening than the self-employed/trader

Breast cancer screening than the secondary school female

practices towards breast cancer screening that the Christian
practice good breast cancer screening (9, 9.9%). Marital status,
practices towards breast cancer screening (P > 0.05).

About two-thirds (67.8%) of the female youths
interviewed in Lugbe community in Abuja, Nigeria have
good knowledge about breast cancer screening. Majority
(80.1%) have good attitudes towards breast cancer screening
while only 12.6% do involve in good practices towards breast
cancer screening. Tertiary female youths have the highest level of good practices
towards breast cancer screening, followed by 26-30 age-group
(P<0.05).

Increasing cancer screening rates among female youth
populations is vital because early detection is intermediate
to reducing morbidity and mortality due to breast cancer. The
prevalence of breast cancer among young women is extremely low and young age is a bad prognostic factor for
the treatment of breast cancer [14, 15]. In a study, it is
revealed that young age is the second most powerful risk
factor among premenopausal women after lymph node status
[16]. Therefore, early detection is important in this age group
[14]. With regard to the level of individual’s knowledge
about breast cancer, appreciable proportion of the study
subjects were found with good knowledge (34.3%), but for
females, 28.2% and 15.8%, were found with moderate and
poor knowledge, respectively Alharbi, et al. [18]. This is also
in accordance with this research where more than two-thirds
of respondents in the age-group 21-25 (112, 70.9%) and 26-
30 (81, 68.6%) have good knowledge of breast cancer screening while about half (22, 53.7%) of respondents in the
age-group 15-20 have good knowledge of breast cancer screening. There is no statistical association between age-
group, religion and knowledge about breast cancer screening while secondary female youths (1, 2.6%). Age-group, highest
educational level have statistical association with practices
towards breast cancer screening (P < 0.05).

30 (12.4%) and 10 (13.2%) of singles and married female
youths respectively have good practices towards breast cancer
screening. More Muslim female youths (17, 13.4%) have good
practices towards breast cancer screening that the Christian
female youths (23, 12.1%). Higher proportion (8, 18.6%) of
self-employed/trader have good practices towards breast
cancer screening than student female youths (23, 12.6%) while
the civil servant/professional have the least proportion that
practice good breast cancer screening (9, 9.9%). Marital status,
religion, occupation have no statistical association with practices
towards breast cancer screening (P > 0.05).

Table 4 shows that 29 (18.4%) of 21-25 female youths
have good practices towards breast cancer screening followed by age-group 26-30 (10, 8.5%) and 15-20 (1, 2.4%).
Higher proportion of tertiary female youths (39, 14.0%) have
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interviewed in Lugbe community in Abuja, Nigeria have
good knowledge about breast cancer screening. Majority
(80.1%) have good attitudes towards breast cancer screening
while only 12.6% do involve in good practices towards breast
cancer screening. Tertiary female youths have a significant
higher knowledge, attitudes and practices (KAP) towards
breast cancer screening than the secondary school female
youths (P<0.05). Students and Civil servant/professionals
have a significant higher Knowledge and Attitudes towards
breast cancer screening than the self-employed/trader
(P<0.05). Singles female youths have higher knowledge
about breast cancer screening than the married (P<0.05).

4. Discussion

Table 4 shows that 29 (18.4%) of 21-25 female youths
have good practices towards breast cancer screening followed by age-group 26-30 (10, 8.5%) and 15-20 (1, 2.4%).
Higher proportion of tertiary female youths (39, 14.0%) have
good practices towards breast cancer screening than secondary female youths (1, 2.6%). Age-group, highest
educational level have statistical association with practices
towards breast cancer screening (P < 0.05).

More Christian female youths than the Muslim have good
attitudes to breast cancer screening (P<0.05). Age-group 21-
25 of female youths have the highest level of good practices
towards breast cancer practices, followed by 26-30 age-group
(P<0.05).

Increasing cancer screening rates among female youth
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to reducing morbidity and mortality due to breast cancer. The
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tertiary education (204, 73.1%) have good knowledge of
breast cancer screening than secondary female youths (11, 28.9%). More than 7 in 10 of students (129, 70.5%) and civil
servant/professional (71, 78.0%) have good knowledge of breast cancer screening while only 15 (34.9%) of self-
employed/trader have good knowledge of breast cancer screening. There is a statistically significant association between marital status, highest educational level, occupation of female youths and knowledge about breast cancer screening ($p < 0.05$). This study result is at variance with the finding of a study by Majed Alshahrani et al. [19] which showed a low-level knowledge of breast cancer in general, mammogram, clinical breast examination, and breast self-examination in female.

The findings in this study can also be compared to a study in India which showed more than half of women were aware of breast cancer [20]. Another study in china is also in agreement with the present study which showed that close to three quarter (71.8%) of female participants has good Knowledge regarding breast cancer while 28.2% were unmindful [21]. This study is also in contrast with other findings which reported poor knowledge of breast cancer and the screening methods. A study from Jordan contradict this study which show that a lot of Jordanian women had scaring poor levels of knowledge of breast cancer [22]. knowledge of breast cancer was low among 411 Jordanian woman aged 18-70 years in Amman, the capital of Jordan [23].

On attitude, this study shows that about 8 in 10 of all the age-groups of the female youths interviewed have good attitudes towards breast cancer screening (80.5%), 131 (82.9%), and 90 (76.3%) for 15-20, 21-25 and 26-30 age-groups respectively. 194 (80.5%) of singles and 60 (78.9%) of married female youths have good attitudes towards breast cancer screening. Age-group and marital status have no statistical association with attitudes towards breast cancer screening ($P > 0.05$). This study finding also agreed with a study by where about 78.4% of the respondents shows good attitude towards breast cancer screening [24]. A study conducted in Pakistan is also in agreement with this study result in which Majority (246, 80.9%) of his participants shows positive attitude but poor knowledge which could have influence their poor practice too [25]. This study also shows that more tertiary female youths 232 (83.2%) than secondary 22 (57.9) have good attitudes towards breast cancer screening. More Christian female youths 170 (89.5%) than Muslim 84 (66.1%) have good attitudes towards breast cancer screening. Students and civil servant/professionals (152, 83.1% and 85, 93.4% respectively) have good attitudes towards breast cancer screening than the self-employed/trader (17, 39.5%). Highest educational level, religion and occupation have statistical significant association with the attitudes of female youths towards breast cancer screening ($P < 0.05$). A supportive study by Grace et al., 2016 shows that 95 (67.9%) had positive attitude towards breast cancer screening while 45 (32.1%) had negative attitude towards breast cancer screening.

Considering the practice towards breast cancer, this study showed majority of the youth do not practice breast cancer screening which may be due to inadequate screening facility and poor awareness on the importance of breast screening. Few participants 29 (18.4%) of 21-25 female youths have good practices towards breast cancer screening followed by age-group 26-30 (10, 8.5%) and 15-20 (1, 2.4%). Higher proportion of tertiary female youths (39, 14.0%) have good practices towards breast cancer screening than secondary female youths (1, 2.6%). Age-group and highest educational level have statistical association with practices towards breast cancer screening ($P < 0.05$). 30 (12.4%) and 10 (13.2%) of singles and married female youths respectively have good practices towards breast cancer screening. More Muslim females youths (17, 13.4%) have good practices towards breast cancer screening that the Christian female youths (23, 12.1%). Higher proportion (8, 18.6%) of self-employed/trader have good practices towards breast cancer screening than student female youths (23, 12.6%) while the civil servant/professional have the least proportion that practice good breast cancer screening (9, 9.9%). Marital status, religion and occupation have no statistical significant association with practices towards breast cancer screening ($P > 0.05$). Study also shows that more than half of his participants had poor practice, having not been practicing any of the three preventive measures [24]. A study in Pakistan also show that majority of participants has poor practice which may possibly be attributed to poor knowledge.

From this study research, it is evident that majority has a good knowledge and attitude about breast cancer with poor practice to breast cancer screening. Poor practice can be attributed to inadequate accessibility to source of information about the importance and advantage of early breast cancer screening, religion, culture and belief. However, poor practice can not only be attributed to inadequate knowledge about how and when to do the breast cancer screening as other factors such as lack of screening center, poor knowledge on how to do breast self-examination among others can be a contributing factors.

5. Conclusion

In conclusion, this research has shown that majority of female youth has good knowledge and attitude about breast cancer screening but has poor practice towards breast cancer screening which is in tandem with the research conducted [17]. It was also discovered that married female youth and traders have poor practice but good knowledge towards breast cancer screening. Higher proportion of self-employed/trader have good practices towards breast cancer screening than student female youths while the civil servant/professional have the least proportion that practice good breast cancer screening. Marital status, religion, occupation have no statistical association with practices towards breast cancer screening ($P > 0.05$). Generally, this finding shows that presence of good knowledge and positive attitude towards breast cancer screening should not be assumed for willingness to practice preventive strategies.

6. Recommendation

With reference to the findings of this study, it is highly recommended that schools, community, religion centres and
government should design programs that will create better awareness on the importance of breast cancer screening, how it is done, and where breast cancer screening can be accessed. It is also indispensably important that screening facilities should be provided in primary health care centres to improve availability and accessibility to this essential life-saving service among young female population.

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