Factors Associated with Intention to Utilize Cervical Cancer Prevention Strategies among Pregnant Women Attending Antenatal Clinics in Ibadan, Nigeria

O. B. Ani, C. O. Aimakhu, I. O. Morhason-Bello

ABSTRACT

Cervical cancer is the second commonest cancer among women in Nigeria, with one-third of all cases occurring during the reproductive period. However, different barriers, including the unaffordability of vaccines and ineffective screening programs, delay preventive measures. Hence, the need to adequately tackle those barriers to improve uptake. Using an interviewer-administered questionnaire, the descriptive cross-sectional study design was adopted to gather data from 344 pregnant women attending antenatal clinics in three hospitals in Ibadan. Data collected were entered into the Statistical Package for Social Sciences, version 20.0. Frequency distribution tables, mean, figures, and multinomial logistics regression were used to summarize and present the data. Most Pregnant women, 34.3%, were aged between 25-29 years, with 35.8% of them having poor knowledge of HPV, while 61.1% had poor knowledge of cervical cancer. Also, 43.3% of the participants had never heard of HPV. In addition, 47.7% of respondents stated that distance to a health facility could hinder their utilization of cervical cancer prevention strategies. The multinomial logistic regression showed a significant association between awareness of HPV Vaccination and plan for HPV vaccination aOR 0.32 CI (0.14 – 0.76), and plan for cervical cancer screening aOR 0.24 CI (0.11 – 0.53) respectively. It is crucial to correct the negative perception and attitude towards cervical cancer and its preventive measures to help increase its adoption.

Keywords: Cervical cancer, factors, intention, preventive measures.

I. INTRODUCTION

Cervical cancer burden remains high worldwide with an estimated 578,000 cases and 266,000 deaths each year, and it is both the fourth most common cause of cancer and the fourth most common cause of death from cancer in women [1], [2]. These death rates have continued to increase annually, with an estimated 570,000 cases and 311,000 deaths in 2018, which rose to 604,127 cases and 341,831 deaths in 2020 [3]. In Nigeria, GLOBOCAN, 2020, estimates that cervical cancer is the second commonest cancer among women in Nigeria, with an Age Standardized Incidence Rate (ASR) of 18.4 per 100,000. Hence, indicating the need for improved cervical cancer prevention strategies from young ages.

The Human Papillomavirus (HPV) infection, responsible for 90% of cervical cancer cases, has a disproportionately high burden in low-and-middle-income countries, with more than 90% of the estimated 3110,000 deaths from the disease occurring in these countries [4]-[6]. Cervical cancer is responsible for around 12% of all cancer cases and 7.5% of all cancer-related deaths in developing countries [7]. These marked differences can be explained by inadequate access to screening services that facilitate early detection and treatment, low preventive health behavior, and lack of access to effective screening services [8], [9]. It has also been noted that one-third of all cervical carcinomas occur during the reproductive period with 3% of cervical cancer cases being diagnosed during pregnancy [10], [11]. The risk of HPV infection is higher during pregnancy owing to hormonal changes and immunosuppression [12].

The high cervical cancer mortality in low-and-middle-income countries is also majorly attributed to the unaffordability of vaccines, ineffective screening programs, limited access to cervical cancer screening, and low levels of follow-up treatment after abnormal test results preventive methods of cervical cancer [13]. Cervical cancer screening using cytology (Papanicolaou test) has been a highly successful public health intervention for the early detection of precancerous lesions in the cervix [14]. However, this breakthrough is limited in availability and accessibility.

The barriers to cervical cancer screening services underutilization include personal barriers like lack of knowledge about the importance of screening, misconceptions, and negative health beliefs [15], [16], community and health system structural barriers such as lack of community support [17], and inaccessibility of the

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screening services [18], [19]. HPV vaccines exist, and it is recommended for children between the ages of 9 and 12 [6]. Unfortunately, the HPV vaccination is not included in the routine vaccination programs, and this serves as a hindrance in the control of the virus spread. Therefore, the principal aim of the study was to identify the perception, attitude, and factors influencing the intention to utilize cervical cancer preventive measures among pregnant women in Ibadan.

II. MATERIALS AND METHODS

A. Study Design, Setting and Population

A quantitative cross-sectional study was conducted among pregnant women attending antenatal clinics in University College Hospital, Adeoyo Maternity Teaching Hospital, and the Agbowo Primary Healthcare Centre. These hospitals were chosen because they offer maternal and child health services to many women in the state. Data collection spanned a total of seven weeks, and a total of 344 respondents were interviewed. All pregnant women who attended ANC at the selected facilities and those who gave informed consent met the inclusion criteria, while all pregnant women who were psychologically unstable or ill at the time of data collection and those that refused to give consent were excluded.

B. Instrument for Data Collection

An interviewer-administered questionnaire made up of five sections was used for data collection. Section A collected information about respondents' socio-demographic data. Section B acquired information about knowledge and perception towards cervical cancer prevention. Section C was on attitude towards cervical cancer prevention strategies. Section D was on concerns about the utilization of cervical cancer prevention strategies, while section E collected information about factors influencing intention to utilize cervical cancer prevention strategies. The project supervisors assessed the face and content validity, while the construct validity was assessed by other experts in Obstetrics, Gynaecology, and oncology. The reliability was determined using the split-half method, where the instrument was administered to pregnant women in a facility different from the selected ones by dividing them into odd and even numbers, after which a reliability coefficient of greater than 0.8 determined the instrument strongly reliable.

C. Sampling and Data Collection

The selection of participants was made using the multi-stage sampling method. At Stage I, the convenience sampling method selected the primary, secondary, and tertiary health care facilities. At Stage II, the proportionate sampling method was used to select women in each facility, while the systematic random sampling method was used to select every 3rd ANC attendee. A letter of introduction was obtained from the department, and the proposal was submitted to the UI/UCH ethical review board and Oyo state Ministry of health to obtain ethical clearance for the study. Two research assistants were trained on data collection processes for one day. They simulated the data collection process, after which they assisted in administering the questionnaires to the respondents. Permission was taken from the clinic head at the first meeting, and subsequently, at each meeting, the respondents were met on a one-on-one basis with the study's purpose explained, after which an informed consent form was given to them to complete. Respondents filled out the questionnaires at the different settings selected for the study, and it was retrieved immediately after. Ethical principles of confidentiality, beneficence, non-maleficence, and justice were upheld throughout the study.

D. Method of Data Analysis

The quantitative data were entered, cleaned, and analyzed using SPSS version 20.0. Descriptive summaries, frequency tables, and graphs were used to describe the data. For the statistical tests, P-value ≤ 0.05 was considered as statistical significance. A multinomial regression including a crude and adjusted odds ratio and confidence interval was constructed to determine the extent to which dependent and independent variables were associated.

E. Ethics Consideration

Ethics approval for this study was obtained from the UI/UCH ethical review board, The Oyo state ethical committee with ethical approval number- AD 13/479/4099B, and the Ibadan North Local Government. The purpose of the study, assurance of confidentiality and anonymity of respondents' information, was included in the consent form and explained verbally to the participants.

III. RESULTS

Results from the study show that the greatest proportion of women (34.3%) were aged between 25-29 years, and 76.4% were majorly Yoruba. More so, the greatest proportion, 67.7%, had tertiary education as the highest level of education, while 79.7% earned less than or equal to 50,000 naira. Also, 68.2% of them were multiparous (Table I).

Results from Table II portray that 35.8% of the respondents had poor knowledge of HPV, while the greatest proportion, 61.1%, had poor knowledge of cervical cancer.

Results from the study, as stated in Table III, shows that 83.3% of the women do not think cervical cancer is preventable, with 63.1% of them disagreeing with being faithful to partner as a method of primary prevention of cervical cancer, while 57.4% also disagreed with pap smear being a secondary means of prevention.

Results from the study in Table IV portray that a proportion of the women are contemplating utilizing cervical cancer preventive measures, as 45.6% stated they might be willing to encourage their family members to take HPV Vaccination, with 41.9% and 41.3% respectively, stating that they may be willing to pay for HPV Vaccination and take HPV vaccination, which are all primary prevention methods. More so, 45.9% stated they would encourage their family members to receive a pap smear, while 45.9% stated they might be willing to pay for a pap smear, with 52.9% stating they plan to do a cervical cancer screening.

The most significant concerns about HPV Vaccination were abnormal vaginal bleeding and persistent pelvic pain as identified by 47.8% and 46.7% of the participants, with 34.3% having concerns about all the issues raised. Also, 80.2% of the respondents stated they had not had a pap smear before (Table V).
Results from the study show that the most mentioned factor was the distance to a health facility as identified by 47.7% of participants, followed by the cost of screening, 34.6%, husband’s permission, 28.2%, and exposure to causative factors, 24.7%. (Table VI).

The multinomial logistics regression in Table VII is the regression output of factors associated with the plan to take HPV vaccination among participants. The odds of not planning to get HPV vaccination was significantly higher among participants who were aware of HPV vaccination (aOR: 9.29; 95% CI: 1.68 – 51.23), while the odds of not planning for HPV vaccination was lower among participants who were aware of cervical cancer prevention strategies (aOR: 0.08; 95% CI: 0.01 – 0.64). After adjusting for other variables, religion remained significantly associated with participants’ plans to take HPV vaccination; Muslims were more likely to plan for HPV vaccination than their Christian counterparts (Adjusted OR (aOR):3.67; 95% CI:1.54 – 8.74).

On the other hand, a participant who earned 50,000 Naira and above as monthly income, those who were aware of HPV vaccination, had concerns about HPV vaccination and were aware of HPV test and screening had a lower odd to be indecisive about HPV vaccination (aOR: 0.37; 0.32; 0.36; 0.16 and 95% CI: 0.17 – 0.82; 0.14 – 0.76; 0.14 –0.90; 0.07 – 0.35 respectively). Also, participants who had a family history of pap smear test were more likely to be indecisive about their plan (aOR: 3.41; 95% CI: 1.01 – 11.56), and those who believed that cervical cancer is associated with infection had lower odds to be indecisive than those who do not believe that cervical cancer is associated with infection (aOR: 0.15; 95% CI: 0.004 – 0.53).
Multinomial logistic regression analyses were performed to identify the key sociodemographic, primary, secondary and distal factors associated with saying no and being undecided about utilizing cervical cancer preventive measures. All predictors are adjusted for all other covariates in the model. Note: Odds ratios and 95% confidence intervals for the adjusted odds ratios are highlighted in bold.

### TABLE IV: INTENTION OF WOMEN TO UTILIZE CERVICAL CANCER PREVENTION STRATEGIES

| Frequency (Percent) N=344 | Yes | No | Maybe |
|--------------------------|-----|----|-------|
| Primary                  |     |    |       |
| Plan to take HPV vaccination | 132 (38.4) | 70 (20.3) | 142 (41.3) |
| Willingness to pay for HPV vaccination | 143 (41.6) | 57 (16.6) | 144 (41.9) |
| Encourage family members to take HPV vaccination | 136 (39.5) | 51 (14.8) | 157 (45.6) |
| Secondary               |     |    |       |
| Plan Cervical cancer screening | 182 (52.9) | 60 (17.4) | 102 (29.7) |
| Willingness to pay for pap smear | 148 (43.0) | 38 (11.1) | 158 (45.9) |
| Encourage family member to receive pap smear | 158 (45.9) | 68 (19.8) | 118 (34.3) |

### TABLE V: BARRIERS TO UTILIZATION OF SECONDARY CERVICAL CANCER SCREENING OR PREVENTION STRATEGIES

| Frequency (Percent) N=344 | Yes | No |
|--------------------------|-----|----|
| Distance to a health facility | 164 (47.7) | 180 (52.3) |
| Cost of screening | 119 (34.6) | 225 (65.4) |
| Husband disagrees | 97 (28.2) | 247 (71.8) |
| Religion | 65 (18.9) | 279 (81.1) |
| Cultural values | 79 (23.0) | 265 (77.0) |
| Un-exposure to causative factors | 85 (24.7) | 259 (75.3) |
| Health worker’s attitude | 62 (18.0) | 282 (82.0) |
| Fear of the result | 71 (20.6) | 272 (79.4) |

### TABLE VI: MULTINOMIAL REGRESSION OF PLAN FOR HPV VACCINATION

#### CRUDE OR (95% CI) | Adjusted OR

| Age (In years) | 0.98 (0.93 – 1.04) | 1.00 (0.96 – 1.04) | 1.04 (0.94 – 1.16) | 1.04 (0.97 – 1.11) | p=0.003 | p=0.063 |
| Marital Status | 1.00 (0.96 – 1.04) | 1.00 (0.96 – 1.04) | 1.04 (0.94 – 1.16) | 1.04 (0.97 – 1.11) | p=0.003 | p=0.063 |
| Single | 1.00 (0.96 – 1.04) | 1.00 (0.96 – 1.04) | 1.04 (0.94 – 1.16) | 1.04 (0.97 – 1.11) | p=0.003 | p=0.063 |
| Married | 1.00 (0.96 – 1.04) | 1.00 (0.96 – 1.04) | 1.04 (0.94 – 1.16) | 1.04 (0.97 – 1.11) | p=0.003 | p=0.063 |
| Ethnicity | 0.86 (0.81 – 0.93) | 0.86 (0.81 – 0.93) | 0.86 (0.81 – 0.93) | 0.86 (0.81 – 0.93) | p=0.001 | p=0.002 |
| Yoruba | 0.86 (0.81 – 0.93) | 0.86 (0.81 – 0.93) | 0.86 (0.81 – 0.93) | 0.86 (0.81 – 0.93) | p=0.001 | p=0.002 |
| Others | 0.76 (0.68 – 0.83) | 0.76 (0.68 – 0.83) | 0.76 (0.68 – 0.83) | 0.76 (0.68 – 0.83) | p=0.003 | p=0.006 |
| Religion | 1.11 (1.02 – 1.21) | 1.11 (1.02 – 1.21) | 1.11 (1.02 – 1.21) | 1.11 (1.02 – 1.21) | p=0.003 | p=0.006 |
| Christian | 1.11 (1.02 – 1.21) | 1.11 (1.02 – 1.21) | 1.11 (1.02 – 1.21) | 1.11 (1.02 – 1.21) | p=0.003 | p=0.006 |
| Islam | 1.11 (1.02 – 1.21) | 1.11 (1.02 – 1.21) | 1.11 (1.02 – 1.21) | 1.11 (1.02 – 1.21) | p=0.003 | p=0.006 |
| Education | 0.82 (0.75 – 0.90) | 0.82 (0.75 – 0.90) | 0.82 (0.75 – 0.90) | 0.82 (0.75 – 0.90) | p=0.003 | p=0.006 |

#### LEVEL 2 (Primary)

| Awareness of HPV vaccination | 0.84 (0.38 – 1.88) | 0.15 (0.09 – 0.27) | 9.29 (1.68 – 51.23) | 0.32 (0.14 – 0.76) | p=0.001 | p=0.001 |
| Family history of HPV vaccination | 0.84 (0.38 – 1.88) | 0.15 (0.09 – 0.27) | 9.29 (1.68 – 51.23) | 0.32 (0.14 – 0.76) | p=0.001 | p=0.001 |
| Concerns about HPV vaccination | 0.16 (0.08 – 0.32) | 0.16 (0.08 – 0.32) | 0.16 (0.08 – 0.32) | 0.16 (0.08 – 0.32) | p=0.003 | p=0.006 |
| Awareness of HPV test and screening | 0.36 (0.14 – 0.92) | 0.32 (0.16 – 0.64) | 0.38 (0.11 – 1.24) | 0.36 (0.14 – 0.90) | p=0.001 | p=0.001 |

#### LEVEL 3 (Secondary)

| Awareness of cervical cancer | 0.30 (0.11 – 0.83) | 0.36 (0.18 – 0.72) | 0.43 (0.03 – 5.51) | 1.09 (0.30 – 3.95) | p=0.090 | p=0.004 |
| Awareness of cervical cancer prevention strategies | 0.30 (0.11 – 0.83) | 0.36 (0.18 – 0.72) | 0.43 (0.03 – 5.51) | 1.09 (0.30 – 3.95) | p=0.090 | p=0.004 |
| Family history of pap smear test | 0.32 (0.12 – 0.87) | 0.86 (0.40 – 1.85) | 0.08 (0.01 – 0.64) | 2.03 (0.63 – 6.55) | p=0.005 | p=0.013 |
| Belief that cervical cancer is associated with infection | 0.55 (0.22 – 1.35) | 0.36 (0.19 – 0.68) | 3.69 (0.50 – 27.30) | 3.41 (1.01 – 11.56) | p=0.001 | p=0.001 |
| Belief that cervical cancer is associated with infection | 0.37 (0.14 – 1.00) | 0.17 (0.09 – 0.34) | 0.26 (0.03 – 2.02) | 0.15 (0.04 – 0.53) | p=0.007 | p=0.007 |

Multinomial logistic regression analyses were performed to identify the key sociodemographic, primary, secondary and distal factors associated with saying no and being undecided about utilizing cervical cancer preventive measures. All predictors are adjusted for all other covariates in the model. Note: adjusted odds ratios, 95% CIs 95% confidence intervals for the adjusted odds ratios are highlighted in bold.
Table VIII displays the results of the multinomial regression of the plan for cervical cancer screening among participants. In the adjusted model, a weak association existed between age and plan for cervical cancer screening. A unit increase in the participant’s age increased the likelihood of being undecided in their plan for cervical cancer screening (aOR: 1.06; 95% CI: 1.00 – 1.13). A participant who had primary or no formal education have a higher odd of being undecided in their plan for cervical cancer screening. In contrast, a participant who earned 50,000 naira and above had a lower odd of being undecided in their plan for cervical cancer screening (aOR: 0.40; 95% CI: 0.18 – 0.86), and as the number of living children increases, the odds of being undecided about cervical cancer screening test dropped.

The odds of being undecided about cervical cancer screening was lower among participants who were aware of HPV vaccination, those that had a family history of HPV vaccination, and those that reported a family history of pap smear test (aOR: 0.24; 0.11; 0.08 and 95% CI = 0.11 – 0.53; 0.02 – 0.51 and 0.01 – 0.69).

### TABLE VII: MULTINOMIAL REGRESSION ON WILLINGNESS TO PLAN FOR CERVICAL CANCER SCREENING

| Variable                                      | CRUDE OR (95% CI) | Adjusted OR (95% CI) |
|-----------------------------------------------|------------------|----------------------|
| Age (In years)                                | p=0.346          | p=0.030              |
| Marital Status                                | p=0.886          | p=0.859              |
| Ethnicty                                      | p=0.556          | p=0.680              |
| Religion                                      | p=0.274          | p=0.259              |
| Level 2 (Primary)                             |                  |                      |
| Awareness of HPV vaccination                  | p=0.001          | p=0.001              |
| No Silence                                    | p=0.001          | p=0.002              |
| Yes                                           | 0.24 (0.14 – 0.40) | 0.37 (0.13 – 0.87) |
| Family history of HPV vaccination             | p=0.004          | p=0.165              |
| No Silence                                    | 0.53 (0.05 – 0.36) | 0.84 (0.23 – 0.85) |
| Yes                                           | 0.21 (0.13 – 1.12) | 0.14 (0.05 – 0.36) |
| Concerns about HPV vaccination                | p=0.004          | p=0.245              |
| No Silence                                    | 0.38 (0.21 – 0.71) | 0.49 (0.18 – 1.36) |
| Yes                                           | 0.29 (0.17 – 0.50) | 0.41 (0.14 – 1.19) |
| Level 3 (Secondary)                           |                  |                      |
| Awareness of cervical cancer                  | p=0.156          | p=0.196              |
| No Silence                                    | p=0.129          | p=0.410              |
| Yes                                           | 0.76 (0.37 – 1.56) | 0.97 (0.26 – 3.59) |
| Awareness of cervical cancer prevention strategies |            |                      |
| No Silence                                    | 0.41 (0.17 – 0.99) | 0.76 (0.37 – 1.56) |
| Yes                                           | 0.37 (0.12 – 1.14) | 0.37 (0.12 – 1.14) |
| Family history of pap smear test              | p=0.001          | p=0.006              |
| No Silence                                    | 0.46 (0.22 – 0.97) | 1.64 (0.44 – 6.02) |
| Yes                                           | 0.25 (0.25 – 2.07) | 0.46 (0.22 – 0.97) |
| Level 4 (Distal)                              |                  |                      |
| Belief that cervical cancer is associated with infection | p=0.010 | p=0.566              |
| No Silence                                    | p=0.010          | p=0.566              |
| Yes                                           | 0.54 (0.29 – 0.99) | 0.63 (0.22 – 1.84) |

Multinomial logistic regression analyses were performed to identify the key sociodemographic, primary, secondary and distal factors associated with saying no and being undecided about utilizing cervical cancer preventive measures. All predictors are adjusted for all other covariates in the model. Note: aOR adjusted odds ratios, 95% CIs 95% confidence intervals for the adjusted odds ratios are highlighted in bold.

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IV. DISCUSSION

Findings from this study show a lack of knowledge and awareness about Human papillomavirus vaccination and cervical cancer screening among respondents. The intention to utilize prevention strategies was also low, with a good number of them stating that their most significant concern about screening was persistent pelvic pain. Distance to the facility was the most significant barrier to utilizing preventive services.

This study shows that the most significant proportion of the respondents were multiparous, which indicates that the women could have been exposed to human papillomavirus throughout their lives and hence the need to point the use of preventive services their way. Another factor contributing to the high prevalence of cervical cancer in the developing world compared to the developed world was the lack of awareness of cervical cancer [20], which supports findings from this study. The lack of knowledge and awareness noted in this study is alarming, as knowledge and awareness are significant determinants of the adoption of preventive services and may contribute to the low uptake of preventive services discovered in this study.

Results from the study also show that the most mentioned barrier to non-utilization of preventive services was the distance to a health facility, followed by the cost of screening, husband's permission, and un-exposure to causative factors. Despite being preventable by appropriate screening strategies, significant underutilization of cervical cancer screening services was reported in the study. The utilization of cervical cancer screening services depends on healthcare-associated factors, the availability of trained professionals, and women themselves. The significant barriers for non-use, identified by the women in the study of [21]-[23], were lack of awareness about the screening, illiteracy; some people think such services are for educated people. Also, when people are healthy, they do not bother about preventive services as they have other contending problems. It is generally not essential, and many have nonchalant attitudes to their health. Financial constraint was another problem as the available services were not free. The poverty level in our society is relatively high. Also, lack of symptoms and low perception of risk have been found among more educated women in Nigeria as primary reasons for not having cervical cancer screening tests. These findings corroborate findings from this study. Other findings supporting this study are [24], [25], where time, economic barriers, poor knowledge, underlying health and cultural beliefs, attitudes, language, and unhelpful attitudes of health professionals were identified as significant barriers to utilization of screening programs. Similarly, some authors identified that 30.4% of the respondents had not undergone cervical cancer screening because of fear of the screening procedure [26], which also significantly affected screening in this study. The findings from the study of [27] show that curative services were more prioritized over preventive services when the planning and allocation of resources from the national to the district level, which also affects utilization of preventive services even though not recognized in this study.

The results of the adjusted multinomial regression of plan for cervical cancer vaccination show that awareness of HPV vaccination significantly increased the odds of not planning to get the HPV vaccination. In contrast, awareness of cervical cancer prevention strategies significantly reduced the odds of not planning for HPV vaccination. These findings align with findings from other studies observing that people's level of awareness and knowledge appears to influence their intention or plan significantly to vaccinate [28]-[33]. Also, women who had a family history of pap smear tests were more likely to be indecisive about their plan.

In addition, the results of the adjusted multinomial regression of plan for cervical cancer screening among respondents show that women who had primary or no formal education have a higher odd of being undecided in their plan for cervical cancer screening. These findings are similar to the study of [34]-[36], where it was found that illiterate women may have less intention to seek cervical screening. Illiterate women may have poor access to health services and experience a lower quality of life, which may delay seeking health care, even when symptoms of the disease are apparent, compared to better-educated women, who may respond faster. In contrast, women who earned 50,000 naira and above had a lower odd of being undecided in their plan for cervical cancer screening. Findings from this study are in consonance with findings from the study of [37], [38], where it was reported that increased socioeconomic status would place the women population in a better position economically and knowledge-wise. Thus, the likelihood of them planning and seeking cervical screening is improved. Cost might discourage some women from utilizing the screening, and as the number of living children increases, the odds of being undecided about cervical cancer screening tests drop. The odds of being undecided about cervical cancer screening were lower among women who were aware of HPV vaccination, those that had a family history of HPV vaccination, and those that reported a family history of the pap smear test.

The strength of this study is that it is a unique work carried out among a population of women who are not usually explicitly considered for the topic. The sample size for this study was a limitation, as it was small and may not have been representative enough to increase the power of the study. The industrial action of the resident doctors also affected women's attendance at antenatal clinics and hence caused a lower reach of the participants. More so, participants in this study (pregnant women) were mainly out of the recommended age for HPV vaccination (9–26 years old). Thus, their intention to vaccinate themselves could be low compared to their intention to vaccinate their future daughters. This study only focused on women of pregnancy age; thus, our result may not be representative of the entire population of women.

V. CONCLUSION

Cervical cancer preventive measures are more straightforward ways by which the menace of cervical cancer can be eliminated in our society. It involves the process of vaccination, which should be encouraged at younger ages and for young girls and boys, and screening for precancerous lesions, which should be promoted among pregnant women who are an established set of sexually active women to detect cases earlier and treat accordingly. Since cervical cancer is the only preventable cancer among women, awareness of the
need to have the vaccination or be screened or utilize secondary preventive measures such as Pap smear must be promulgated. The findings of this study call for public health policy to implement a step-by-step strategy for cervical cancer prevention.

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CONFLICT OF INTEREST
Authors declare that they do not have any conflict of interest.

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