Knowledge, Attitude & Practice towards Cervical Cancer Screening among Women Globally – A Systematic Review

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Abstract

Background: Cervical Cancer is the fourth most frequent cancer among women worldwide. Around 500,000 new cases of cervical cancer are diagnosed every year out of which 270,000 women die in developing countries. It is an issue of significant public health concern.

Objective: To review the knowledge, attitude & practice towards cervical cancer screening among women globally.

Methodology: Literature search was done on electronic databases including PubMed and Google scholar for articles published between 2013 to March 2020. Keywords used for the search were (cervical cancer screening) (knowledge) (attitude) (practice). A total of 17 studies were included in the review based on eligibility criteria. The articles included were specific to English language.
**Result:** A total of 17 studies were included in the review with a total of 6158 women aged between 15-70 years having varied levels of knowledge, attitude & practice towards cervical cancer screening. 42.22% women had knowledge about the screening process. The source of information was friends & family (26.70%), media (15.92%), health professionals (12.35%). More than half of the participants showed positive attitude towards the cervical cancer screening (59.97%). Only 13.26% had undergone the cervical cancer screening. Most common reason for not undergoing screening was no signs & symptoms (32.78%) followed by no knowledge (28.21%).

**Conclusion:** There is a dire need to generate awareness and formulate plans for implementation of screening programs in the most cost effective and feasible way, ensuring maximum community participation.

**Keywords:** Cervical cancer; Screening; Knowledge; Attitude; Practice

1. **Introduction**

In the modern era, the world is heading towards the rising epidemic of noncommunicable diseases (NCDs). Out of these NCDs, cancer is the second leading cause of death globally [1]. Among all the cancers, cervical cancer is the fourth most frequent cancer among women worldwide. Every year, around 500,000 new cases of cervical cancer are diagnosed out of which 270,000 women die, mostly (85%) in developing countries [2]. According to WHO, in 2018, around 570,000 women were diagnosed with cervical cancer worldwide and about 311,000 women died from the disease. Almost 99% cases of the cervical cancer are associated to infection with human papillomaviruses (HPV). It is a common virus which is transmitted through sexual contact [3]. Cancer of the cervix is the major reproductive health problem in women, especially in emergent nations [4]. It is the major cause of morbidity and mortality in women globally and an issue of significant public health concern [5]. It is a slow growing cancerous disease that generally takes several years to undergo malignant transformation from primary infection by the oncogenic human papillomavirus (HPV) to the various precancerous histological lesions accompanying the persistence of the infection [6]. Cervical cancer takes about 10-15 years to develop [7]. Cervical cancer is a deadly disease once it reaches the invasive stages, but out of all the female genital tract cancers, it is the only preventable cancer if detected at its early stages. Population-based screening with Pap smear is an important secondary preventive measure for cervical cancer that leads to a high-cure rate among cervical cancer patients [8]. Screening of cervical cancer offers protective benefits and is associated with a reduction. Every women must undergo screening of cervical cancer once in three years as advised by the World Health Organisation (WHO) [9]. Therefore, early screening is mandatory to reduce the incidence of malignancy. In emergent nations, the screening coverage is ranging from 0.4% to 14% in rural areas and from 2% to 20.2% in urban areas [7].

Access to screening and treatment services is needed to ensure the success of a cervical cancer prevention program; however, the availability of services is inadequate to guarantee their use. Moreover, clients and people of the community must be familiar with the problem of cervical cancer, their potential risk of developing the illness & the facilities where they can seek services for screening [10]. By providing accessible & low-cost services and
encouraging these services among the target population through well-organised, strategically targeted information and education efforts, the use of services can be remarkably increased and the incidence of cervical cancer can be reduced [11]. Despite of suboptimal level of knowledge and positive attitude regarding cervical cancer screening still there is inadequate practice towards the screening methods. Hence, there is a dire need to educate women regarding cervical cancer screening. This review was done to evaluate the knowledge, attitude & practice towards the cervical cancer screening among women globally.

2. Methodology

2.1 Search strategy

A comprehensive search of quantitative literature published from 2013 onwards till March 2020 in the electronic databases PubMed and Google Scholar was conducted. We retrieved all the studies written in English and which contained information on knowledge, attitude & practice towards cervical cancer screening in India & abroad. Articles which included the quantitative data of women's knowledge, attitude & practice of cervical cancer screening in India & abroad were included in the review. The following terms and keywords were used: “cervical cancer” “screening” “knowledge” “attitude” “practice”. The subject search and text word search were done separately in PubMed and Google Scholar and then combined with “OR” and “AND” operators. Combined terms were used, for example, (“cervical cancer screening” or 'cervical screening') AND ('cervical cancer knowledge' or 'cervical cancer attitude'). Additional articles were identified using the bibliography of included articles and some excluded review articles, along with forward citation searches.

2.2 Study selection

Articles that had reported quantitative evidence data of knowledge, attitude & practice of cervical cancer screening in India & abroad were only included. (Figure 1) shows the selection process of the articles retrieved. This systematic review was done according to PRISMA guidelines [12]. The initial database search retrieved 810 published English language studies. Out of these, 680 studies were excluded based on title. Of the remaining 130 studies, the abstracts were read out of which 108 articles were excluded as they were either duplicate articles, were not cross sectionally designed or published before 2013. Of the remaining 22 studies 5 studies were excluded as they were conducted among health care professionals and provided incomplete information. 17 cross sectional study designs conducted in diverse settings like hospitals or communities published between 2013 and March 2020 that met the inclusion criteria and focused on knowledge, attitude & practice related to cervical cancer screening were finally included for the review [12-28].

2.3 Inclusion criteria

Cross-sectional studies conducted in diverse settings like hospitals or communities published from 2013 till March 2020, English language and in India & abroad based studies of knowledge, attitude, practice of cervical cancer screening.
2.4 Exclusion criteria
Case reports, case series, earlier reviews, and qualitative studies of cervical cancer screening were excluded. Studies published in languages other than English, conducted on specific population i.e. healthcare professionals & studies which showed incomplete information were excluded.

2.5 Data extraction and synthesis
We extracted the following key characteristics of the studies: lead author and country, year published, study design, sampling technique, sample size, age group and knowledge of cervical cancer and screening, knowledge of who should be screened, knowledge regarding frequency of screening, reasons for not screened, attitude & practice towards cervical cancer screening. After the removal of duplicates, primary outcome data of all articles were indexed in Microsoft Excel. Later, interpretation of textual data was extracted to a Microsoft Word document. Full-text articles were identified and assessed for eligibility after applying the inclusion and exclusion criteria. Agreement of the requisite contents of the articles related to quality assessment and data extraction was performed. Statistical software like SPSS-V.23 was used for statistical application.

Figure 1: Summary of literature search and review process
3. Result

The literature search yielded 130 studies, out of which 17 studies met the inclusion criteria. These studies had a total sample size of 6158 women aged between 15-70 years. Out of 17 studies 16 were hospital and community-based studies among women residing in urban as well rural slums globally [12-21, 23-28]. One study was conducted among medical students [22]. The study population included women in which majority were married [12, 13, 15-20, 23-27]. Majority of the studies i.e. 10 out of 17 studies were conducted in abroad [19-28] and rest were in India [12-18]. The illiteracy rate ranged from 2.4% - 78.3% [13, 28] (Table-1). Most reviewed studies showed significant association between the knowledge of cervical cancer screening and the education level of study participants [20, 21, 24, 26-28], marital status [15, 21, 25, 26], age [21, 24, 26], family income [24], occupational status [20]. (Table-1) Among 17 studies reviewed, 14 reported the knowledge on cervical cancer [14-17, 19-28]. The overall knowledge on cervical cancer among women is 60.04%. Among the reviewed studies, 15 reported knowledge on cervical cancer screening [12-17, 18, 20-28]. The overall knowledge on cervical cancer screening among women is 42.22%. (Figure 2). The awareness level of women regarding the person who should be screened is reported from 6 studies [12, 13, 15, 18, 21, 26] that above 30 years of age 46.88%, reproductive age women 9.58%, 39.75%, married 35.4%, any female 43% should be screened. (Figure 3). Out of 17 studies reviewed, 9 reported the knowledge on the awareness level of women regarding frequency of screening [12, 15-18, 21, 24, 26, 27]. The study participants perceived that women must undergo screening every one yearly (2488)19.13%, three yearly (3487)11.7%, symptomatic (594)59.76% (Figure 4). Among the studies reviewed, 9 [12, 13, 15, 18-21, 23, 26] reported that most of the women got the information from the school (34%) followed by friends & family (26.70%), media (15.92%) and health professionals (12.35%) (Figure 5). Based on the review, 9 [12, 15, 18, 19, 21, 22, 23, 26, 27] out of 17 studies reported that a majority of women had various reasons for not undergoing screening. The most common reason for not undergoing screening was no signs & symptoms (32.78%) followed by no knowledge (28.21%) and majority of the women think that they are healthy so there is no need for undergoing screening of cervical cancer (Figure 6). Based on the review it was observed that there is a variation between knowledge, attitude & practice on cervical cancer screening (Figure 7). Despite of limited knowledge about cervical cancer & screening, a large number of participants had positive attitude towards the screening process. The articles reviewed showed disparity between the knowledge, attitude & practice score of India and abroad. When compared it was observed that the knowledge regarding cervical cancer screening is high in India (54.57%) as compared to abroad but the attitude & practice towards cervical cancer screening was higher in abroad when compared to India (Figure 8).
<table>
<thead>
<tr>
<th>Author</th>
<th>Study Design</th>
<th>Year of Study</th>
<th>Sample Size</th>
<th>Population Characteristics</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rajiv Kumar Gupta et al&lt;sup&gt;i&lt;/sup&gt;</td>
<td>Cross-sectional study</td>
<td>2019</td>
<td>415</td>
<td>Place- Jammu &amp; Kashmir, India&lt;br&gt;Females visiting the OPD of gynaecology and obstetrics department of Government Medical College&lt;br&gt;Age- 20-50 years&lt;br&gt;Education level- 20.52% were illiterates&lt;br&gt;Marital status- 88.94% were married women</td>
<td>Knowledge of cervical cancer screening- 89.47%&lt;br&gt;Attitude of cervical cancer screening- 77.89%&lt;br&gt;Practice of cervical cancer knowledge- 16.31%</td>
</tr>
<tr>
<td>T. Varadheswari, Rahul Hanumant Dandekar, T. Sharanya&lt;sup&gt;ii&lt;/sup&gt;</td>
<td>Cross-sectional study</td>
<td>2015</td>
<td>74</td>
<td>Place- Tamil Nadu, India&lt;br&gt;Women visiting the hospital&lt;br&gt;Age- 18-50 years&lt;br&gt;Education level- 78.3% had no formal education and were never been to school&lt;br&gt;Marital status- 97.2% were married</td>
<td>Knowledge of cervical cancer screening- 85.13%&lt;br&gt;Attitude of cervical cancer screening- 83.78%&lt;br&gt;Practice of cervical cancer knowledge- 2.70%</td>
</tr>
<tr>
<td>Archana James Pattupara, Niharika Dhiman, Amninder Singh, Jaya Chaturvedi&lt;sup&gt;iii&lt;/sup&gt;</td>
<td>Cross-sectional study</td>
<td>2016</td>
<td>400</td>
<td>Place- Uttarakhand, India&lt;br&gt;Females visiting the outpatient clinic&lt;br&gt;Age- 18-60 years</td>
<td>Knowledge of cervical cancer screening- 3.25%&lt;br&gt;Attitude of cervical cancer screening- 1.25%&lt;br&gt;Practice of cervical cancer knowledge- 1%</td>
</tr>
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<td>Sujindra Elamurugan, Praveena Rajendran, Sivashankari Thangamani&lt;sup&gt;iv&lt;/sup&gt;</td>
<td>Cross-sectional study</td>
<td>2016</td>
<td>200</td>
<td>Place- Puducherry, India&lt;br&gt;Women comprising school teachers and housewives&lt;br&gt;Age- 20-60 years&lt;br&gt;Education level- 3% were illiterates&lt;br&gt;Marital status- 85.5% were married</td>
<td>Knowledge of cervical cancer screening- 84%&lt;br&gt;Attitude of cervical cancer screening- 72%&lt;br&gt;Practice of cervical cancer knowledge- 25%</td>
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<tr>
<td>Authors</td>
<td>Study Design</td>
<td>Year</td>
<td>Sample Size</td>
<td>Place/Region</td>
<td>Age (years)</td>
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<tr>
<td>Neha Dahiya, Kavita Aggarwal, Megha Chandra Singh, Suneela Garg, Rajesh Kumar*</td>
<td>Cross-sectional study</td>
<td>2018</td>
<td>150</td>
<td>New Delhi, India</td>
<td>19-70</td>
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<tr>
<td>Niji Rachel Varughese, Clarence James Samuel, Pratiba Dabas vi</td>
<td>Cross-sectional study</td>
<td>2016</td>
<td>304</td>
<td>Ludhiana, Punjab</td>
<td>15-50</td>
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<tr>
<td>K. Krishnaveni, Pinki Roy, R. Sambathkumar vii</td>
<td>Cross-sectional study</td>
<td>2018</td>
<td>500</td>
<td>Tamil Nadu, India</td>
<td>20-70</td>
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<tr>
<td>Tope Olubodun, Oluwakemi Ololade Odukoya, Mobolanle Rasheedat Balogun viii</td>
<td>Cross-sectional study</td>
<td>2019</td>
<td>305</td>
<td>Lagos, Nigeria</td>
<td>15-49</td>
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<td>Roza Teshome Kassa, Teshome Oljira Gurmessa, Tadesse Fikre Lemma,</td>
<td>Cross-sectional study</td>
<td>2019</td>
<td>390</td>
<td>Adama town, Ethiopia</td>
<td>30-60</td>
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<tr>
<td>Authors</td>
<td>Study Design</td>
<td>Year</td>
<td>Sample Size</td>
<td>Place</td>
<td>Education Level</td>
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<tr>
<td>Workinesh Sinshaw Abebe</td>
<td>Cross-sectional study</td>
<td>2018</td>
<td>814</td>
<td>Amhara, Ethiopia</td>
<td>High school (40.3%)</td>
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<td>Ayele Semachew Kasa, Tadesse Dagget Tesfaye, Worku Animaw Temesgen</td>
<td>Cross-sectional study</td>
<td>2018</td>
<td>15.1% were illiterates</td>
<td>46.8% were unmarried</td>
<td>Knowledge of cervical cancer screening</td>
</tr>
<tr>
<td>Deborah Akpo, Priscilla Deji, Victory Idiaye, David Otohinoyi, Srinivas Medavarapu</td>
<td>Cross-sectional study</td>
<td>2016</td>
<td>100</td>
<td>Roseau, Dominica</td>
<td>Female medical students</td>
</tr>
<tr>
<td>Tongtong Liu, Shuping Li, Julie Ratcliffe, Gang Chen</td>
<td>Cross-sectional study</td>
<td>2017</td>
<td>405</td>
<td>China</td>
<td>Rural women of eastern china</td>
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<td>Marital status</td>
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<td>Study Reference</td>
<td>Study Type</td>
<td>Year</td>
<td>Sample Size</td>
<td>Setting</td>
<td>Demographics</td>
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<tr>
<td>Dohbit JS et al&lt;sup&gt;xv&lt;/sup&gt;</td>
<td>Analytical study</td>
<td>2018</td>
<td>622</td>
<td>Postpartum women in Maroua, Cameroon</td>
<td>Age: 25-45 years, Highest level of education: Secondary school (31.7%), Marital status: 69.6% were married</td>
</tr>
<tr>
<td>Shrestha S, Saha R, Tripathi N&lt;sup&gt;xv&lt;/sup&gt;</td>
<td>Cross-sectional study</td>
<td>2013</td>
<td>105</td>
<td>Women visiting tertiary care centre in Kathmandu, Nepal</td>
<td>Age: 18-70 years, Education level: 19% were illiterates, Marital status: 91.4% were married</td>
</tr>
<tr>
<td>Arslaan Javaeed et al&lt;sup&gt;xv&lt;/sup&gt;</td>
<td>Cross-sectional study</td>
<td>2019</td>
<td>594</td>
<td>Women visiting Gynaecology and Obstetrics outpatient department in Azad Kashmir, Pakistan</td>
<td>Mean age: 26.61 years, Highest level of education: Graduation (40.4%), Marital status: 48.5% were married</td>
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<td>Ahmed O Almobarak, Ayman A Elbadawi, Wadie M Elmadhoun, Mohammed H Elhoweris, Mohammed H Ahmed&lt;sup&gt;xvii&lt;/sup&gt;</td>
<td>Cross-sectional study</td>
<td>2016</td>
<td>500</td>
<td>Sudanese women in Khartoum, Sudan</td>
<td>Age: 14-58 years, Education level: 2.4% were illiterates</td>
</tr>
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</table>

**Table 1:** Characteristics of the studies included in the review.
Figure 2: Knowledge regarding cervical cancer & screening.

Figure 3: Knowledge regarding who should be screened.

Figure 4: Knowledge regarding frequency of screening.
**Figure 5:** Source of information regarding cervical cancer screening.

**Figure 6:** Reason for not undergoing screening.
4. Discussion

This systematic review revealed that there is suboptimal level of awareness about cervical cancer screening among women globally. Most women residing in urban and rural areas of India and abroad have knowledge about cervical cancer and its screening, yet the uptake of screening of cervical cancer is very low. Most common reason for the low uptake of cervical cancer screening is no signs & symptoms followed by no knowledge, fear of result & procedure [12, 15, 18, 19, 21- 23, 26, 27]. This study showed that 60.04% of population had heard about cervical cancer. Similar results were observed among a hospital-based study conducted in Bhopal by Bansal et al. [30]. However, these results are contrast with a study conducted among women of Ugrachandi Nala, Nepal [31] where the knowledge of cervical cancer is 94.4%. Another study conducted among women in Dabat District, Northwest Ethiopia [32] show that 46.4% of the population had heard about cervical cancer.

In case of Knowledge of cervical cancer screening our study revealed that only 42.22% of the population had knowledge about screening of cervical cancer. This score is inconsistent with 85.8% of the population having...
knowledge about screening of cervical cancer from the study done among women in Mekelle Zone, Northern Ethiopia [33]. Another study conducted in Bhopal by Bansal et al [30] showed that only 34.5% of the population had knowledge of screening of cervical cancer. Most of the women who had heard about cervical cancer screening stated that they got the information from the school (34%) followed by friends & family (26.70%), media (15.92%) and health professionals (12.35%). Similar results were observed in a study conducted by Acharya Pandey et al in Ugrachandi Nala, Nepal [31] where it was shown that the source of information was family and friends (26.2%) and media (16.6%). Another study conducted in Kerala by S. Aswathy et al [34] showed inconsistent result where the main source of information was media (55.8%) followed by health professionals (33.74%) and family & friends (14.7%). Regarding who should be screened, our study shows that almost half of the population (46.88%) were aware that the women above the age of 30 years should be screened, 43% perceived that any female should undergo screening, 39.75% perceived that women having multiple sexual partners should undergo screening whereas 35.4% believed that married women should be screened. Likewise a study conducted by Ekta et al [35] in tertiary institution of rural India showed consistent result that the women above the age of 30 years should be screened. This study by Ekta et al [35] also showed that 25.1% of the population were aware that only married women should be screened for cervical cancer which is consistent with our result. Another study conducted by HN Harsha Kumar & Shubham Tanya [36] among women in Mangalore City shows that only 20.5% women believed that only married women and 10.8% believed that any female should undergo cervical cancer screening. According to World Health Organisation (WHO), it is believed that all the adult women should undergo periodic cervical cancer screening. With regards to frequency of screening of cervical cancer, 59.76% i.e. three-fifth of the population perceived that screening should be done if the symptoms arise, 19.13% perceived that screening should be done once in a year. Through various studies it was observed that there is an imbalance between the knowledge and actual uptake of screening of cervical cancer among women globally. Many women have adequate knowledge regarding cervical cancer but an unsatisfactory result is observed regarding screening of cervical cancer. Instead of low uptake, a large number of women expressed willingness to undergo screening of cervical cancer.

This study showed that three-fifth of the population had positive attitude towards cervical cancer screening while a study done in a tertiary care hospital of Delhi by M.Singh et al [37] showed that only 18.2% of the respondents has adequate attitude. Another study conducted by Kebadnew Mulatu et al in Ethiopia [38] among female students of Mizan Tepi University showed similar results (61.24%) with our study. This study showed that only 13.26% women had undergone cervical cancer screening in their lifetime. Similar result was observed in a study which was carried out in Outpatient Department of Obstetrics and Gynaecology of secondary care referral Hospital, Bathalapalli, Anantapur district, Andhra Pradesh, India [39]. The study which was conducted in Ethiopia by Kebadnew Mulatu [38] somewhat also showed similar results (14. 83%). The main reasons mentioned for not screened were that there were no signs & symptoms, no knowledge regarding screening process and fear of result & procedure.

In our review it was observed that there is a variation of knowledge, attitude & practice score among the women of India and abroad. From figure-8, it is observed that the knowledge level of India regarding cervical cancer screening
is high when compared with studies done in Abroad. This variation of knowledge level between India and abroad could be because of the studies conducted in abroad which are included in this review. The studies included are mainly done in the countries of Africa where the level of education is inadequate. According to UIS UNESCO, sub-Saharan Africa has high-ranking of education exclusion. Almost 60% of youngsters between the ages of 15 and 17 are not in school [40]. This review found out that the level of knowledge of cervical carcinoma was associated with positive attitude but not with practice of screening. To address the heavy burden of cervical cancer it is compulsory to organise awareness campaigns along with state-wide & national level screening efforts. At the same time, it is important to build up the capacity of health systems across urban and rural areas of the country for effective screening among women. For successful screening programs, the health of the country should focus on program participation, processes & outcomes along with referral pathways and follow ups. According to the International Cancer Screening Network, six essential elements of national cancer screening programs must be taken into account: (1) development of a clear screening policy, (2) recognition that screening is part of a continuum of care, not a stand-alone event, (3) strong infrastructure, (4) establishment of a monitoring and evaluation system, (5) a plan policy, (2) recognition that screening is part of a continuum of care, not a stand-alone event, (3) strong infrastructure, (4) establishment of a monitoring and evaluation system, (5) a plan for community engagement, and (6) implementation of scientific evidence in health delivery settings [41].

5. Conclusion and Recommendations
This systematic review concluded that in spite of good knowledge & positive attitude regarding cervical cancer screening there is a huge gap which needs to be filled in terms of practice. This emphasizes the importance of increasing and creating awareness, encouraging searching of health-related data and acquire health information from any information sources regarding cervical cancer [42]. It is a top-priority to initiate a focused educative intervention to enhance the women’s knowledge about cervical cancer. More attention to be paid for the women of old age and for those whose education level is low, especially residing in the undeveloped regions. Besides education, motivation and guidance for health professionals have a major role in imparting awareness to all the females regarding cancer of the cervix by enhancing women’s education level. Women needs to be motivated to undergo cervical cancer screening and detect the cancer at the earliest. Women all around the world must come together, create awareness and help each other out by sharing knowledge.

Limitations
This review has certain limitations, it only focused on the women of several countries around the world therefore the results may not be generalised. Efforts were made to include all the relevant articles but due to the diversification of the studies it was difficult to include them. Further the calculation of result was done on the basis of secondary data as the data was not collected by us which could lead to discrepancy with the result. Also, the data provided by the women could be false because they might not be able to express openly about their problems to an unknown person. However, despite these limitations, the results of this study provide a basis for further planning for creating awareness among women regarding cervical cancer & screening.
Conflicts of Interest

None declared

References

40. Education in Africa.uis.unesco.org.