KNOWLEDGE AND PRACTICE OF LADY HEALTH VISITORS REGARDING CERVICAL CANCER IN PUBLIC SECTOR MATERNAL AND CHILD HEALTH CENTERS IN LAHORE, PAKISTAN

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Abstract

Background: Globally cancer has grown as public health issue in developing and developed countries, especially swiftly spreading in low income areas because there are inadequate means for prevention, diagnosis and treatment.

Methods: A hospital based cross-sectional research study was conducted from 11th December to 31st, 2016. There are total 52 centers in Lahore are working to provide the basic MCH health services in the community headed by Lady Heath Visitors. Hence; all Lady Heath Visitors were selected to participate in the study and were interviewed at their center by a trained research associate.

Results: All respondents had basic knowledge about cervical cancer. 96.1% respondents were aware about speculums used in gynecology examination, and rests were not aware. 94.2% were familiar with indication of cervical cancer, 92.3% were aware about indication for doing a speculum examination and 82.7% told that they were able to diagnose cervical cancer in routine gynecological examination and same percentage reported that they had been taught how to do speculum examination.

Conclusion: Majority of staff had insufficient knowledge regarding cervical cancer prevalence, treatment and prevention. Practices of the health providers were not up to minimum standard of any basic health services.

Keywords: Cervical cancer, knowledge, maternal and child health, lahore

Introduction

Cancer is rapidly spreading in the world especially in low income countries (1). Cervical cancer is cancer of cervix (2). Cervical cancer causes due to abnormal growth of cervix cells which spreads in to other body parts (3). Initially there are no typical symptoms, later starts pelvic pain, vaginal bleeding and pain during intercourse(4). In 90% cases papillomavirus (HPV) caused this cancer(5,6,7). Smoking, weak immune system birth control pills sex in very young age, multiple sex partners are also significant causes of cervical cancer. (1,3).For diagnosis there are cervical screening, biopsy, imaging etc. are methods(1).

HPV vaccination can prevent 90% cervical cancer (8,9,10,11). Pap smear or acetic acid can Cervical cancer screening using the Pap smear or acetic acid can detect precancerous changes and diagnose well in time (12). Surgery, chemotherapy and radiotherapy are available for cancer treatments. There are nearly 8% of total cases die due to this cancer (13). Prognosis of cervical cancer depends on how early cancer is Outcomes depend very much on how early the cancer is distinguished. 528,000 cervical cancer cases were globally detected in 2012 and 266,000 died among them, 70% were notified from developing countries. Cancer deaths are most common cause in the low income countries (10). Cervical cancer incidence has been reduced dramatically in developed countries due to screening programmes for early diagnosis and prompt treatment (14,15). Reproductive health services in Pakistan for women in rural areas are being provided by a network of basic Heath Units (BHU), Rural Health Centers (RHCs) and in urban areas through Maternal and Child Health (MCH) centers.

Lahore is big city with 10 million population having 50% female with 45% of child bearing age (CBAs), to cater the MCH services in addition to five tertiary and two secondary care hospitals, there are 52 MCH centers in
public sector. In private sector many hospitals are providing MCH services to target population. The cervical cancer deaths reported by Global Burden of Diseases for Pakistan in 1990 were 1106 with 2.02 rates per 100,000 females. In 2012 number of deaths was reported 1918 with 2.20 rates per 100,000 females of all age groups (16).

For cervical cancer pre malignant stage is well defined and tests are available to diagnose it and treatment is possible and available. The developed world has witnessed a significant decrease in of cervical cancer incidence and prevalence. Unfortunately, the situation is very different in the developing countries. Lack of infrastructure and resources does not allow Pap smear based cytological screening services. Many countries have been using alternative screening strategies using simple technologies without necessitating elaborate and expensive systems, visual inspection with acetic acid (VIA) and the use of Single Visit Approach by see and treat in the same visit is a time tried and feasible option. Human papilloma virus (HPV) is the most common sexually transmitted diseases which causes cervical cancer (17,18).

There are primary and secondary cervical cancer prevention, primary prevention is vaccination. Screening, regular pap smear examinations, safe sex practices, lowering the number of sex partners and quitting the smoking are effective preventive measures (19). At early stage diagnosis of cervical cancer has a very good prognosis and treated well (20). VIA is an effective, inexpensive test and can be performed by a lady health visitor, by doing the vaginal speculum examination, they would apply dilute acetic acid (3-5%) to cervix, and can see abnormal tissue temporarily appears white after exposed to acetic acid (21).

The National Maternal and Neonatal Child Health (NMNCH) programme was started in Pakistan in 2006. Its goal was to improve the maternal and child health in the country, predominantly poor community, by strengthening on going and new interventions. In each province provincial implementation units were established in 2007, which were responsible planning and execution, through district units. Districts units were headed by Executive Districts Officers, supported by public health specialists and social mobilizers. For close community services a lady health workers were headed by Executive Districts Officers, supported by public health specialists and social mobilizers. For close community services a lady health workers were headed by Executive Districts Officers, supported by public health specialists and social mobilizers. For close community services a lady health workers were headed by Executive Districts Officers, supported by public health specialists and social mobilizers. 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on cervical cancer and 30.77% of the respondents were of opinion that there is bad effect of overweight. The 28.8% respondents had knowledge regarding human papilloma virus (HVP) infection, 71.2% of the respondent had no knowledge about HVP.

The majority 73.1% of the respondents were not taught about cervical cancer when they were student and only 26.9% agreed that they were taught during the study. Only 25% were aware about Pap smear test. Most lady health visitors had a view that for smear testing/ sample collection is the procedure for doctor and 90% LHVs never had referred a patient for Pap testing. 78.8% of the respondents had not ever seen a cervical cancer patient and few of them (11.2%) of respondents had seen a cervical cancer patient. A significant majority (88.46%) of respondent had not any close relative with cervical cancer; only few had a close relative of cancer patient. The significant majority (88.5%) of the respondents did not attend any training on cervical cancer.

Figure 1: Knowledge assessment of Lady Health Visitors about Cervical cancer in Public Sector Maternal and Child Health centers in Lahore City, Pakistan

As far as the test availability for cervical cancer diagnosis at pre-cancer stage the majority (88.5%) of respondents was not aware and remaining (11.5%) were aware about the test availability for cervical cancer diagnosis. The significant numbers (90.4%) of the respondents were not aware of sample, acetic and iodine visual test and few (9.6%) were aware, whereas (92.3%) respondents do not heard about the colposcopy. 94.3% were of the opinion that cervical cancer is not prevalent in Pakistan and same number was not aware about causes of cervical cancer (Fig 1).
58% of respondents were not aware how common is cervical cancer among gynecological cancer, 23% told moderate, 13% said in most common and 6% told it is least common (Fig 1). What is the mortality rank of cervical cancer amongst gynecological cancer is given in Fig 2, Causes of cervical cancer are shown in Fig 3. Treatment choices employ in cancerous lesions in cervix are explained in Fig 4. Infectious causes of cervical cancer are described in Fig 5, names of causative agent of cervical cancers are shown in Fig 6, route of transmission of the causative agent of cervical cancer are given in Fig 7 and risk factors for developing cervical cancer are described in Fig 8.
Various questions regarding cervical cancer are given in Fig 9, 10, 11, 12, 13, 14, 15 and 16.

Fig 9: Form the list which you consider can be the presenting complaints of cervical cancer.

Fig 10: Do you think cervical cancer can be prevented?

Fig 11: Does the causative agent can cause any other disease?

Fig 12: Do you think the causative agent can be detected?

Fig 13: Do you think cervical cancer can be detected before its symptoms appear?

Fig 14: If yes! cervical cancer can be prevented through?

Fig 15: If yes! what technique are available for its detection?

Fig 16: If yes! what disease?
Discussion
A lot of Global financial and political efforts have been made during the past two to control and prevent the cervical cancer by creating awareness in masses and developing skills of health providers. But present study showed very disappointing results.
Pre malignant phase of cervical cancer is well defined and tests are available to diagnose it in the pre malignant phase. Treatment is possible and available. Hence there should be no more cervical cancer. The developed world has beheld a significant decrease in incidence of cervical cancer and mortality has also reduced.
Unfortunately, the situation is very different in the study area. Lack of infrastructure and resources does not allow Pap smear based cytological screening services. Many countries have been using alternative screening strategies using simple technologies without necessitating elaborate and expensive systems. VIA and the use of Single Visit Approach by see and treat in the same visit is a time tried and feasible option, GWHI has run a pilot using VIA as cervical cancer is mostly spread through sexually transmitted papilloma virus which common infection of female reproductive canal. The meticulous morbidity and mortality with cervical cancer is not defined in Pakistan because it is an ignored disease in terms of screening and prevention. Inconsistence epidemiological data is available in different studies because of small-scale studies, limited population and dealing with only registered cases.

Conclusion
Majority of staff was unaware about cervical cancer causes, diagnosis, treatment, and prevention. They were least interested regarding knowledge of cancer and did not meet the minimum standard of any basic health provider.

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