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Role of Human Papilloma Virus Infection in Cancer of Cervix

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Worldwide the Cervical cancer is the second most common type of cancer. This type of cancer that begins in the cervix cells is a sexually transmitted disease. Genital infection having role also in cancer cervix like gonorrhea, herpes simplex virus (type 2) and syphilis. The cervical cancer was one of the most common causes of cancer death in the United States, the American Cancer Society's estimates about 12,990 new cases of cancer cervix cancer during 2016 and although estimates about 4,120 women will die from cervical cancer there. By the using the Pap test during the last 40 years, the cervical cancer death rate has gone down by more than Fifty percent. A virus named human papillomavirus (HPV) causes this type of cancer, and it causes transformation in the cervix. The link between HPV infection of the cervix and the cancer is believed one of the significant scientific findings in the last three decades. The transformation zone of the cervix is the most common site in which the cancer is related to it for unknown causes. This transformation zone that is located between different type of epithelium mainly in the oropharynx, cervix and anus have a close relationship to the infection by Human papilloma virus (HPV) . Although it is expensive, the primary prevention by the vaccine still the most effective method for cancer cervix. This vaccine is effective and safe. The virus that is known to cause the disease is said to be harmless, though with persistent infections over a long time it causes pre-cancerous cells that if not cleared leads to cancerous cells. The process of the infection is in four stages with the first phase involving the infection within the cervical region; the second stage involves of persistent introduction to the virus strains and gradually leads to the change of the infected epithelium to cervical pre-cancer phase. The process continues and progresses to the cancerous stage if clearance is not done. The HPV infection has been ranked as the extensive STI globally, and most women get it once in a lifetime though it is not harmful. The virus affects cervical shape, then modifies the usual cells into cancerous cells, and they continue to create high with persistent exposure. Early screening, testing, and vaccinations are the primary ways of preventing and controlling HPV and cancer cervix.

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