Essential Training Package for HPV Vaccine Introduction

Module 1

Introduction to HPV Infection & Cervical Cancer Disease CervarixTM



Learning objectives



- At the end of the module, you will have learned to:
 - Explain the incidence & mortality of cervical cancer globally and regionally
 - Explain the cause of most cases of cervical cancer
 - Explain HPV transmission and disease progression
 - Discuss symptoms, prevention and treatment of cervical cancer

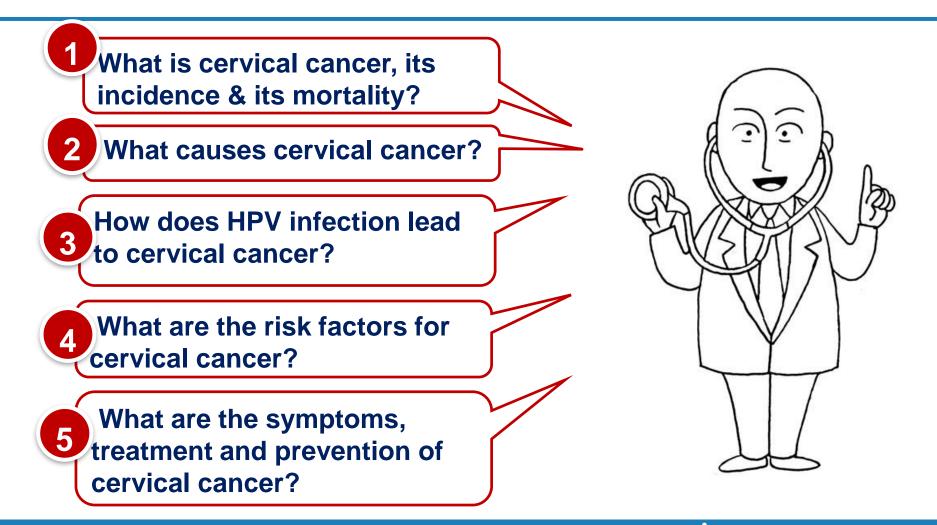


Duration – 45'

> World Health Organization



Key Issues



3 HPV Vaccine Introduction, Module 1 Cervarix[™] 24 March 2021



Global Burden of Cervical Cancer

The second most common cancer in women

• Every year:

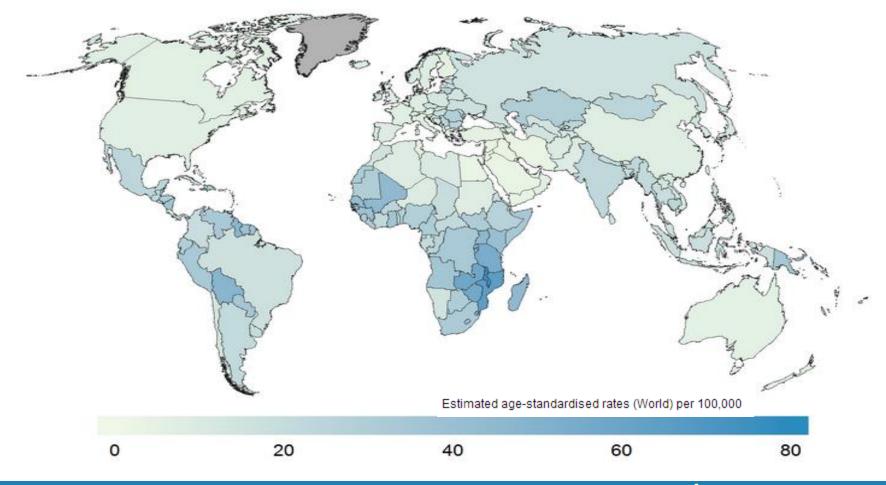
- > 528,000 new cases diagnosed
- > 266,000 deaths
- Over 85% in developing countries

• By 2050:

- one million cases
- ➢ 90% in developing countries

Introduction

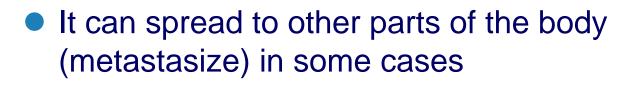
Estimated Cervical Cancer Incidence Worldwide in 2012

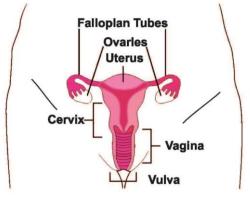




What is cervical cancer?

- The cervix is the lower part of uterus (womb)
- Cervical cancer is the uncontrolled growth of abnormal cells in the cervix, which usually starts on the surface
- Cervical cancer is invasive, which means it can grow deep into the cervix and uterus







What causes cervical cancer?

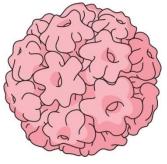
- Human papillomavirus (HPV) is the main cause of cervical cancer
- HPV is a common virus, which is
 - Easily spread by skin-to-skin contact during sexual activity with another infected person
- HPV types 16 and 18 are associated with about 70% of all cervical cancer cases
- Risk factors for HPV infection and cervical cancer:
 - Early sexual intercourse
 - Multiple sexual partners
 - Tobacco use



Symptoms of advanced cervical cancer

- HPV infection is often asymptomatic
- Symptoms appear after cancer reaches an advanced stage
- Main symptoms include:
 - Irregular vaginal bleeding or bleeding after sexual intercourse
 - Back, leg or pelvic pain
 - Fatigue, weight loss, loss of appetite
 - Vaginal discomfort or odorous discharge
 - Single swollen leg
- More severe symptoms (usually more advanced):
 - Severe anaemia
 - Renal failure
 - Fistulae
 - Lymphoedema

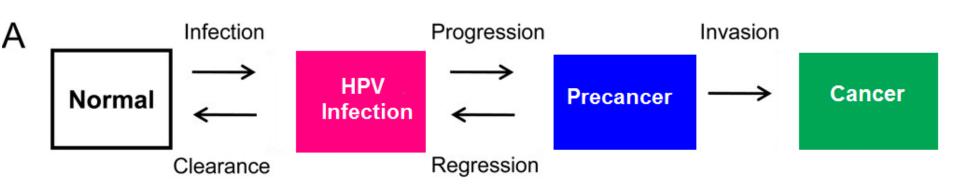




Human papillomavirus

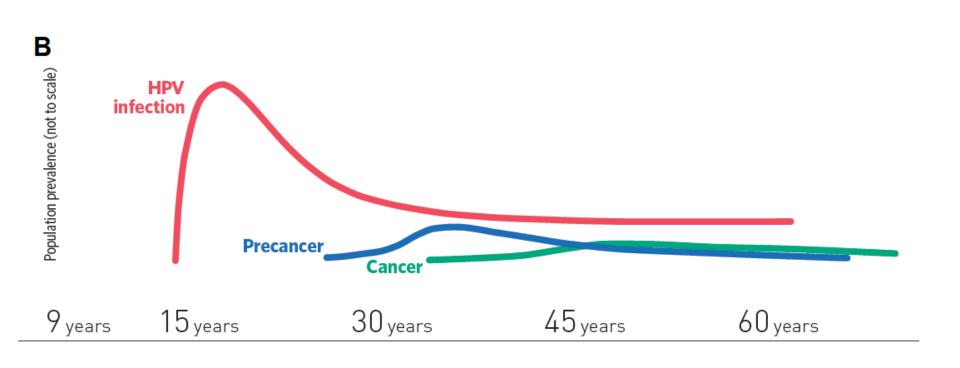
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How does HPV infection lead to cervical cancer?



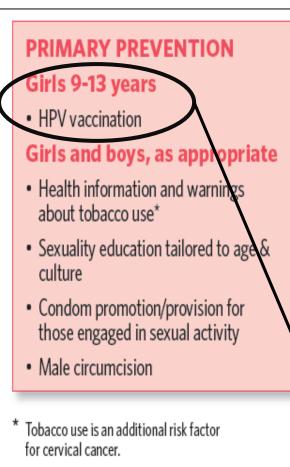


Over what timespan does Cervical cancer develop?





Prevention and Treatment



SECONDARY PREVENTION

Women >30 years of age Screening and treatment as needed

- "Screen and treat" with low cost technology VIA followed by cryotherapy
- HPV testing for high risk HPV types (e.g. types 16, 18 and others)

TERTIARY PREVENTION

All women as needed

Treatment of invasive cancer at any age

- Ablative surgery
- Radiotherapy
- Chemotherapy

HPV vaccination prevents 95% of HPV infections with types 16 & 18



Key messages (1/2)



- Cervical cancer is the 2nd most common cancer in women
- Cervical cancer affects an estimated 528,000 women each year and leads to 266,000 deaths (2012) over 85% of affected women live in developing countries
- Cervical cancer is caused by persistent infection with certain types of HPV virus – types 16 &18 cause most cervical cancers
- HPV viruses are common and spread easily by skin-toskin contact during sexual activity



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Key messages (2/2)



- Risk factors for HPV infection and cervical cancer are:
 - early sexual intercourse,
 - multiple sexual partners
 - tobacco use
- Progress from infection to pre-cancerous lesions and cancer is slow but can be rapid in women with immune suppression
- Symptoms of cervical cancer tend to appear only after the cancer has reached an advanced stage
- HPV vaccines prevent over 95% of infections from HPV types 16 & 18



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End of module





References

- Comprehensive cervical cancer prevention and control: a healthier future for girls and women. Guidance Note. WHO 2013
- HPV vaccine introduction into national immunization programmes: Information for programme managers and health workers. WHO 2014
- WHO HPV Vaccine clearing house: http://www.who.int/immunization/hpv/en/



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