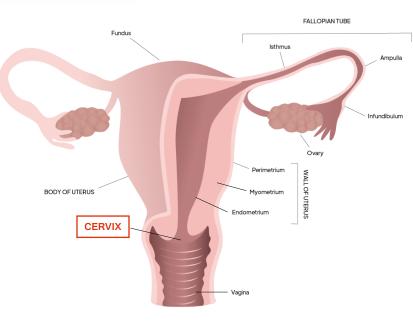
What is

Cervical Cancer?



- Cervical cancer occurs due to abnormal cell growth in the cervix, a part of the female reproductive system connecting the vagina to the uterus
- Caused due to infection by Human Papillomavirus (HPV) serotypes 16 and 18 in 70% cases of cervical cancer and precancerous lesions
- Usually detected between 35 and 44 years of age; average age of diagnosis is 50 years
- Fourth most common cancer and one of the major causes for cancer death among women



HUMAN FEMALE REPRODUCTIVE SYSTEM

Squamous cell carcinoma

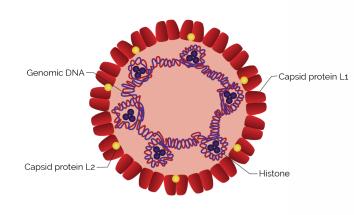
Develops from the squamous cells of exocervix

Responsible for majority of invasive cases of cervical cancer

Adeno carcinoma

Develops from the glandular cells of endocervix

The junction of the squamous cells of exocervix and glandular cells of endocervix is called the "Transformation zone" **or** "Squamocolumnar junction"



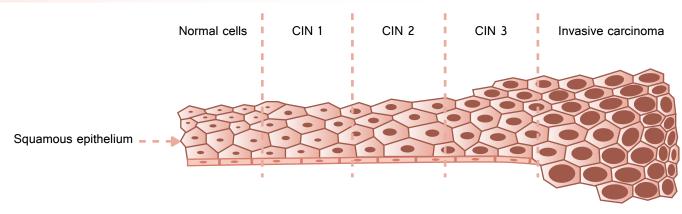
Structure of Human Papillomavirus

First discovered by Dr Hazard Zur Hausen in 1970

Facts check: HPV

- 100 types of HPV; 14 of which lead to cancer
- HPV infection is transient in nature and gets cleared through immune response
- Latency period: 15-20 years in women with normally functioning immune system and 5-10 years in immunocompromised women
- Also causes cancers of vagina, vulva, penis, and anus

Progression of cervical cancer



CIN: Cervical intraepithelial neoplasia

Risk factors

- Persistent infections leading to the development of malignant conditions
- Consumption of oral contraceptives for prolonged time periods
- Coinfection with agents such as Herpes simplex virus
- Multiple sexual partners
- Exposure to diethylstilbestrol
- Smoking

Signs and symptoms

- Early stage: Bleeding after menopause, pain during sexual intercourse and pain in the pelvis area
- Advanced stage: Swelling of legs, difficulty in urinating and bowel movements

Screening tests

- Visual Inspection with Acetic Acid
- Pap test and liquid-based cytology
- **HPV** test

Treatment

- Surgery Radiotherapy
- Hormone chemotherapy
- Immunotherapy

In pregnant women:

Early stage: Radical operative therapy

- Advanced stage: Pregnancy completed
- operatively & referred to ionizing radiation

Prevention







Secondary:

30 years and above





Every age

Tertiary:



cancer through surgery, radiotherapy and chemotherapy



Cryotherapy or thermal ablation in case pre cancerous lesions

