

# Papovavirus

This group of viruses has the ability to transform cells and is related to **tumor growth**. We divide this family into two genera:

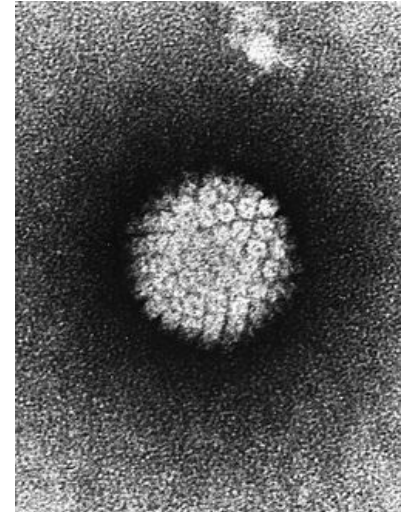
- **Papillomavirus** – the cause of warts and tumor growth,
- **Polyomavirus**.

## Virion

The size of the virion is between 40-60 nm.

## Human papilloma virus (HPV)

- Together with other environmental factors, it is related to the development of tumor growth of the *cervix uteri* (cervix),
- according to the oncogenic potential, the virus is divided into two types:
  - **high risk HPV** (16, 18, 45, 46),
  - **low risk HPV** (6, 11, 42–44).
- **Transmission** – sexual intercourse (does not show clinical significance in men).



Human papillomavirus

## Viruses causing warts on human

- It is more common in immunosuppressed people,
- It is possible to treat ointments with interferon inducers.

## Polyomavirus

### BK virus

- Widespread, isolated from the urine of kidney transplant patients and with multifocal leukoencephalopathy.

### JC virus

- Repeatedly isolated from the brains of patients who died of progressive multifocal leukoencephalopathy.

## Link

## Reference

- HORÁČEK, Jiří. *Základy lékařské mikrobiologie*. 1. edition. Praha : Nakladatelství Karolinum, 2000. vol. 1. ISBN 80-246-0006-4.

## Source

- ws: Papovaviry