

In the name of God

HPV Infection: Clinical Manifestation and Diagnosis

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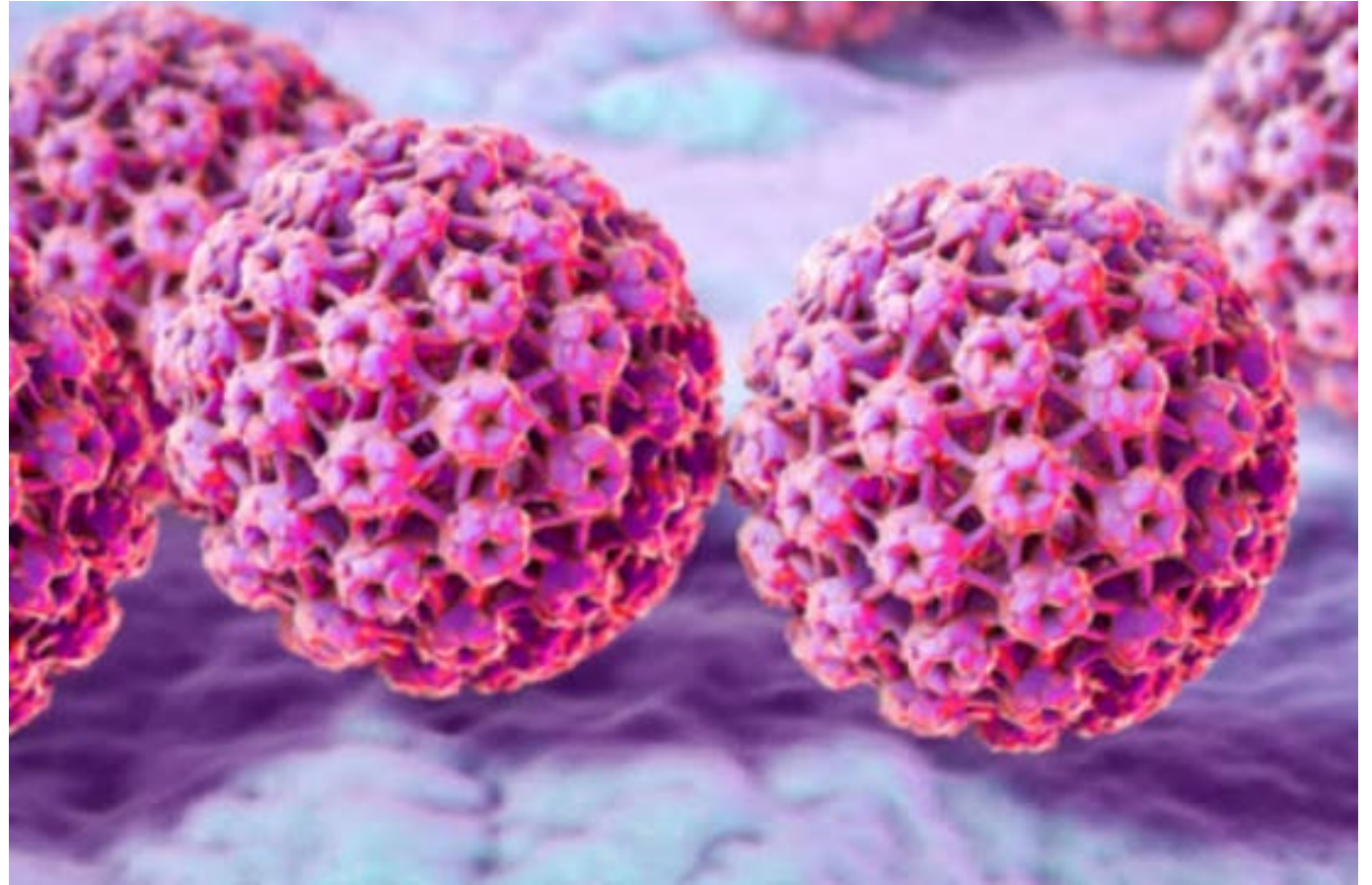
IUMS

2026

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Cutaneous Warts

- Skin Wart
- Plantar Wart
- Flat Wart
- Filiform Wart



Skin Wart

- Common
- Benign
- Rough Papules
- Multiple
- Painless
- Periungual – Hands – Feet
- Black Dots



Plantar Wart

- Large
- Painful
- Hyperkeratosis
- Black Dots



Flat Wart

- Small
- Smooth
- Multiple
- Flat Topped Papules
- Face – Hands – Legs
- 1-5 mm
- Flesh-Colored



Filiform Wart

- Face - Neck



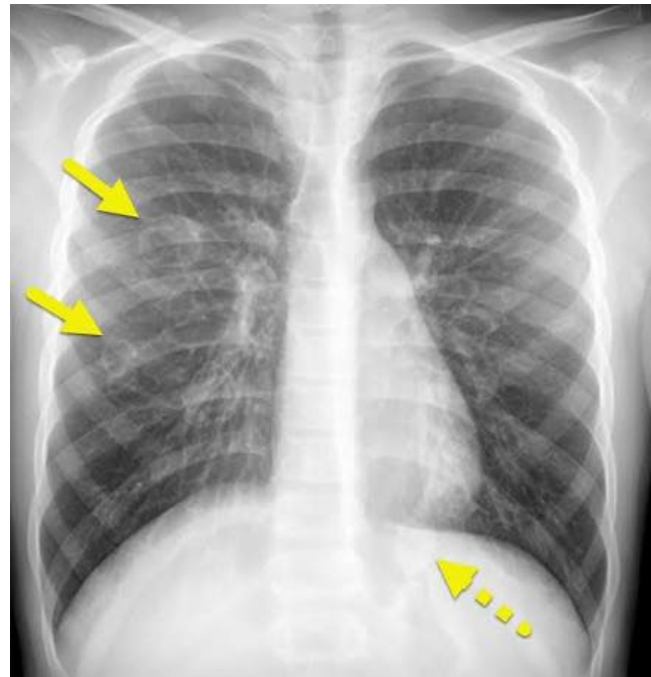
Recurrent Respiratory Papillomatosis

- Juvenile Onset Recurrent Respiratory Papillomatosis (JORRP)
- Adult Onset Recurrent Respiratory Papillomatosis (AORRP)



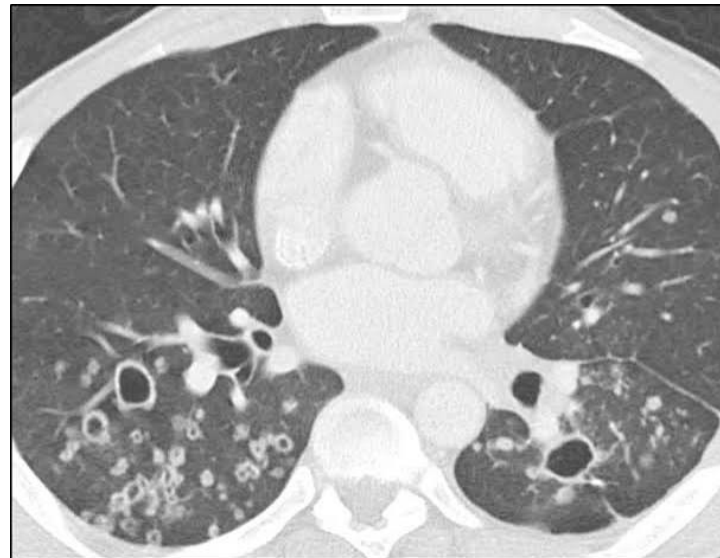
Juvenile Onset Recurrent Respiratory Papillomatosis (JORRP)

- Before 12 Years
- 2-5 Years
- Vertical Transmission
- Type 6 - 11
- Hoarseness – Abnormal Cry – Stridor – Chronic Cough – Chronic Bronchiolitis – Asthma – Respiratory Obstruction – Recurrent Croup – Respiratory Distress
- Often Benign
- Repeated Surgery

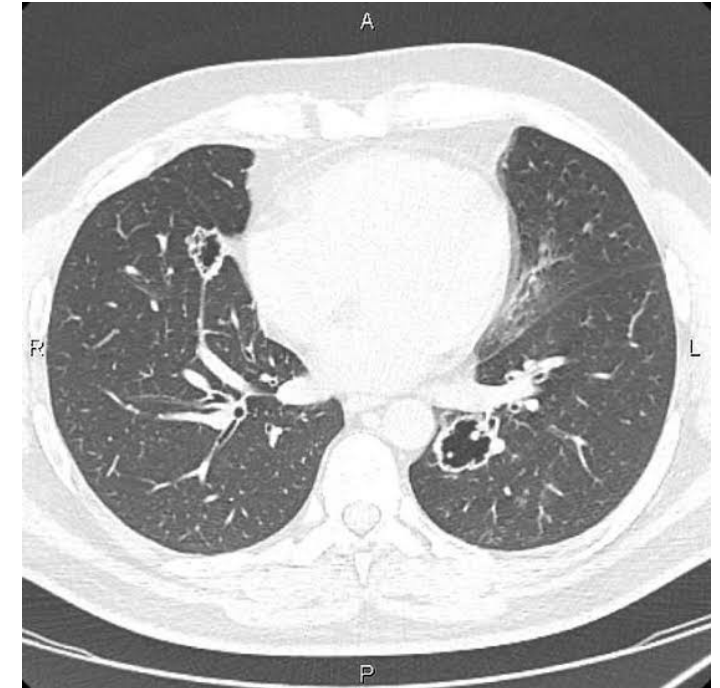


Adult Onset Recurrent Respiratory Papillomatosis (AORRP)

- After 12 Years
- 20-40 Years
- Sexual Transmission
- Type 6 - 11



Transaxial CT image demonstrates multiple small irregular thin-walled cavitary nodules in the dependent portions of the lung in this 32 year old male with biopsy proven tracheal papillomatosis.



Infection of Male and Female Genital Tract (Condyloma Acuminata)

- Penis – Scrotum – Vulva – Perianal – Perineal - Urethra
- Papular – Verrucous – Cauliflower Like - Flat



Infection of Male and Female Genital Tract (Condyloma Acuminata)

- Single or Multiple
- Asymptomatic – Pruritic – Irritation – Bleeding
– Local Pain – Super Infection – Dysuria
- Pink – Red – Purple – Gray
- mm to cm



Oropharyngeal Papillomatosis

- Oral Mucosa – Tongue – Gingiva – Oropharynx
– Tonsillar Region – Buccal Mucosa



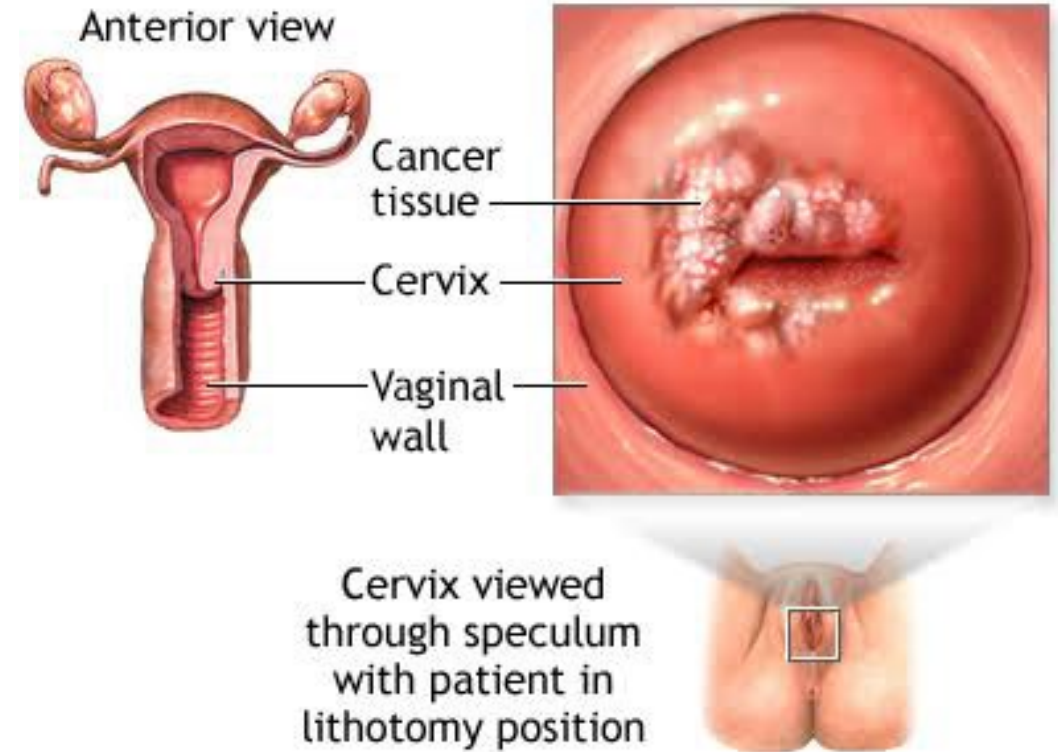
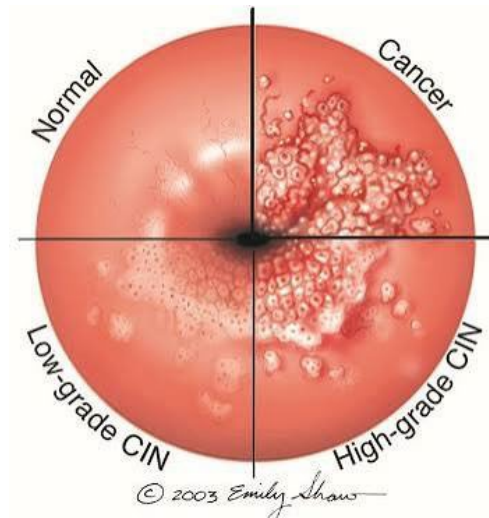
Oropharyngeal Papillomatosis

- Oral Squamous Papilloma
- Focal Epithelial Hyperplasia
- Papillomatous lesion of Mucosa
- Chronic or Recurrent Stridor – Chronic Cough
– Hoarseness – Respiratory Distress



Invasive Cancers

- Cervix – Vulva – Penis – Anus – Oropharyngeal
- LSIL
- HSIL
- HSIL In Cervix: CIN – Insitu Adenocarcinoma



Bowenoid Papulosis

- Multiple Papules
- Erythematous or Brownish
- Histopathology Like High-Risk Intraepithelial Lesion



Epidermodysplasia Verruciformis

- Rare
- Inherited
- CMI Deficiency
- Chronic Cutaneous Lesion (Flat Wart – Pigmented Plaque – First Decade)
- Skin Cancer (30-60%, Adulthood)



Differential Diagnosis

- Condyloma Lata



Differential Diagnosis

- Molloscum Contagiosum



Differential Diagnosis

- Skin Tag



Differential Diagnosis

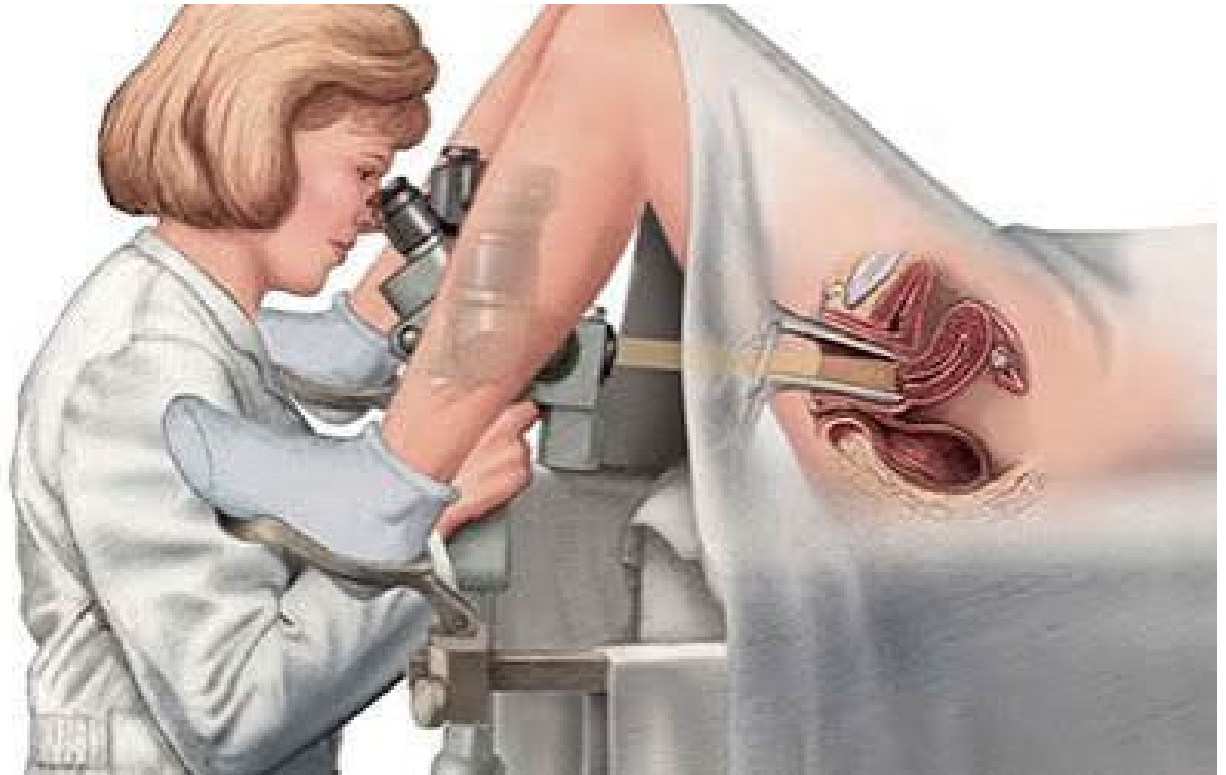
- Seborrheic Keratosis
- Other Inflammatory or Neoplastic Lesion



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Diagnosis

- Clinical Diagnosis
- Cytology (Pop Smear)
- Colposcopy (Cervix – vagina – Vulva)
- Biopsy
 - Atypical Lesion – Rapid Growth – Ulceration – Bleeding – Immune Compromise – Suspicion of Neoplasia – Failure to Therapy – Diagnostic Uncertainly
- PCR
- Serology and Culture
- Laryngoscopy



Thank You For Your Attention

