



## Infectious Diseases Associated with Cancer: A Focus on Human Papillomavirus and Epstein - Barr Virus

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### Abstract

Infectious diseases have emerged as significant contributors to the global burden of cancer, with Human Papillomavirus (HPV) and Epstein - Barr Virus (EBV) being key players in oncogenesis. HPV, primarily transmitted through sexual contact, is a well-established cause of cervical cancer due to its ability to integrate into the host genome and disrupt cellular regulation. On the other hand, EBV, a ubiquitous herpes virus, has been linked to various lymph proliferative disorders and lymphomas, particularly in immunocompromised individuals. Understanding the mechanisms by which these viruses contribute to cancer development is essential for preventive measures and therapeutic interventions. This abstract provides an overview of the relationship between HPV, EBV, and cancer, highlighting the importance of continued research and the implementation of vaccination strategies to mitigate their impact on public health.

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