



Herpes Simplex Virus (HSV) and Varicella Zoster Virus (VZV) Question Bank

Human herpesviruses HSV-1, HSV-2 and VZV are enveloped, icosahedral viruses with linear double-stranded DNA genomes (approximately 125–155 kilobase pairs) (1) (2). HSV-1 and HSV-2 belong to the Alphaherpesvirinae subfamily and establish latency in sensory nerve ganglia (e.g. trigeminal or sacral ganglia) (3) (4). VZV (HHV-3) similarly causes chickenpox and later shingles upon reactivation (5). Primary infection and reactivation produce characteristic vesicular rashes, and infections are diagnosed by PCR, culture, or cytology (e.g. Tzanck smear) (6). Antiviral drugs (acyclovic, valacyclovic, famciclovir) target the viral DNA polymerase and require phosphorylation by the viral thymidine kinase (7) (8). These MCQs test detailed knowledge of HSV/VZV structure, replication, pathogenesis, clinical features, diagnosis, treatment and prevention.

Multiple Choice Questions (MCQs)

1. Which statement correctly describes HSV-1?
 - a. Naked, single-stranded RNA virus.
 - b. Enveloped, double-stranded DNA virus (~150 kb genome) (2).
 - c. Enveloped, segmented RNA virus.
 - d. Non-enveloped, linear DNA virus.
2. Varicella-Zoster Virus (VZV) is classified as:
 - a. A flavivirus.
 - b. A member of the Alphaherpesvirinae subfamily (3).
 - c. A togavirus.
 - d. A retrovirus.
3. The genome size of VZV is approximately:
 - a. 75 kb.
 - b. 125 kb (1).
 - c. 250 kb.
 - d. 400 kb.
4. Herpesvirus replication occurs in the host cell:
 - a. Cytoplasm.
 - b. Nucleus.
 - c. Endoplasmic reticulum.
 - d. Golgi apparatus.
5. HSV-1 establishes latency primarily in the:
 - a. Lymph nodes.
 - b. Trigeminal (gasserian) ganglion (3).
 - c. Basal ganglia.
 - d. Intestinal plexus.

Virology Question Bank

Yan Bai



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Virology Question Bank Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Virology Question Bank**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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