

Virology for second year MD students – School of Medicine – the University of Jordan

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Activity for the 5th lecture

Please read each statement carefully and indicate whether it is True or False:

1. Bocaviruses cause upper and lower respiratory tract infections. **TRUE**
2. Variola major had a high mortality rate and for those who survived infection, permanent scars remained causing emotional damage; therefore, people collaborated in the vaccination efforts. **TRUE**
3. Live attenuated adenovirus vaccine is available for a few serotypes that can cause gastroenteritis. **FALSE**
4. The diagnosis of molluscum contagiosum is by electron microscopy and many cases resolve spontaneously; however, treatment options include curettage, cryotherapy, or topical antivirals. **FALSE**
5. Fifth disease is caused by B19 virus. **TRUE**
6. Adenoviruses cause gastroenteritis, conjunctivitis, and cystitis. **TRUE**
7. A virus that belongs to the *Poxviridae* family would be a double stranded DNA, enveloped virus of icosahedral symmetry that is large and replicate in the cytoplasm. **FALSE**
8. Variola virus is transmitted by respiratory droplets or direct contact with lesions or contaminated fomites. **TRUE**
9. Variola major fatality rate is about 30% as a result of shock, multi-organ failure, and secondary bacterial infections such as pneumonia and sepsis. **TRUE**
10. Smallpox affected humans and monkeys as the only animal reservoir for variola virus. **FALSE**

11. All smallpox cases were symptomatic without subclinical infections or carrier states which helped in the successful eradication of smallpox from the human population. **TRUE**
12. Monkeypox virus enters the human body through broken skin or mucosa, and replicates in regional lymph nodes, causing viremia, and leading to systemic spread with a characteristic maculopapular skin eruption. **FALSE**
13. The diagnosis of mpox is made by PCR testing of the lesion material. **TRUE**
14. Supportive care is necessary in mpox , while antivirals such as tecovirimat can be used in severe cases. **TRUE**
15. Vaccination to prevent mpox with live Modified Vaccinia vaccine is recommended for the general population. **FALSE**
16. The smallpox subunit vaccine was effective and gave long-term immunity which helped in the successful eradication of smallpox from the human population. **FALSE**
17. Smallpox was eradicated from the human population in late 1970s but remained in cows as cowpox caused by variola virus. **FALSE**
18. Molluscum contagiosum virus infects keratinocytes causing localized proliferation and formation of characteristic umbilicated papules following primary viremia. **FALSE**
19. Molluscum contagiosum is commonly transmitted sexually in adults through direct skin-to-skin contact, especially if papules appear in the genital, groin, or thigh area. **TRUE**
20. Tropism for parvovirus include the erythroid progenitors for bocaviruses and the respiratory cells for B19 virus. **FALSE**
21. Slapped cheek syndrome is caused by bocaviruses and B19 virus. **FALSE**
22. Pure red cell aplasia occurs as a result of B19 virus infection affecting immunocompetent individuals. **FALSE**
23. Molluscum contagiosum transmission occurs by direct skin-to-skin contact, fomites, and autoinoculation from scratching. **TRUE**

24. The diagnosis of fifth disease is usually achieved by the detection of IgM antibodies or by PCR. **TRUE**

25. Adenoviruses are single-stranded non-enveloped DNA viruses that replicate in the nucleus with many serotypes. **FALSE**

26. Transmission of adenoviruses occurs by exposure to respiratory secretions, fecal-oral route, or direct contact. **TRUE**

27. Hydrops fetalis is a congenital infection by bocaviruses. **FALSE**

28. Adenoviruses tropism are mainly the epithelial cells of the respiratory tract, eyes, GI tract and urinary tract. **TRUE**

29. Variola virus is a DNA virus that is stable antigenically. **TRUE**

30. Adenoviruses are the most common causes of pharyngitis. **TRUE**

31. The diagnosis of adenovirus infection is usually done by antigen detection or PCR. **TRUE**

32. The treatment of slapped cheek syndrome is supportive care. **TRUE**

33. Erythema infectiosum is caused by bocavirus. **FALSE**

34. Transient aplastic crisis occurs as a result of bocavirus infection of individuals with underlying chronic anemias. **FALSE**

35. Adenovirus infection occurs mainly in winter months. **FALSE**

Good luck!