

ANTHONY MORGAN

N442 Contagion Video handout

Use your textbooks to understand epidemiology and nursing implications for communicable diseases.

1. Do you think the discussion with the physician right after his wife dies realistically portrays how a medical provider could explain such a phenomenon?

yes - The physician was explaining the diseases they ruled out and I witnessed doctors do this at hospitals many times.

2. How many times do you touch your face during the movie? ||

Two times

What do they quote as the range in which people touch their face in an hour?

~~3-5 times per minute~~ 3-5 times per minute & 180-300 times per hour

3. Identify the chain of infection:

Chain of infection is infectious agent, reservoir, portal of exit, mode of transmission, portal of entry, then finally susceptible host. The virus followed these steps via a bat, then pig, then finally a human.

4. What is/are the infectious agent? (end of movie)

~~The pigs are the infectious agent~~
The infectious agent is a virus called Mv1.

5. What diseases did they rule out? > 15:00

measles, west Nile, Polio, flu, swine flu (H1N1), meningitis, & bird flu (H5N1) were ^(regularly) all ruled out.

6. What is the reservoir?

The reservoirs are humans, pigs, & bats.

7. What are the portals of entry? The portals of exit?

Entry - Ingested through the mouth, inhaled through the nose, & eyes.

Exit - Mouth via coughing & excretion is the portal of exit.

8. What are the fomites? Can the virus live for 6 days on a box?

Fomites - Surfaces where a microbe can be transmitted to another person via touch.
- "The virus cannot live for days on a box".

9. What is the process they take to determine what the disease is?

viewed symptoms to ascertain pathogen.

Cultured the virus with viable cells.

Studied the virus learning its number of base pairs, mechanisms of action, & genetic code.

10. What agencies get involved?

The CDC, WHO, Homeland security, The American Red Cross, FEMA, & ~~health~~ public health departments.

vaccine: → 28:00

22. What are the symptoms of the virus?

vomiting • seizures • cough • temp ^{increased} 101.8F / fever
• Headache • Dysphagia • Blurred vision • Fatigue • Diaphoresis

23. How do they develop a vaccine? 1:08:00 -

1. Virus is cultivated in viable cells.
2. Virus is manipulated in different ways then injected into an animal (monkey)
3. A human is tested to see if the immune system develops the appropriate number of antibodies.

24. How is the vaccine administered? 1:20:00 - 1:30:00

Intranasally

25. Is it a live virus vaccine versus an attenuated virus vaccine?

Attenuated

What is the difference?

An attenuated virus is a weakened virus but a live virus is an unmanipulated pathogen.

26. What sort of immunity does the vaccine provide?

The vaccine provides active immunity.

27. How can the vaccine be administered to the greatest number of people?

Have the vaccine available at many locations as possible & free of cost.

28. How does the environment, transportation, communication, essential services, government, and health care facilities get involved?

Those resources bequeath vaccine access & information on ways to prevent infection.

29. In your opinion do local, national, and global politics make a difference in the development and distribution of the vaccine? 1:00:00 -

No, the conspiracy theorists did not alter the production time of the vaccine.

Explain your opinion?

The CDC & other involved entities did not change tactics when conspiracy theorists lied about foul play.

30. Does it make a difference if there is a rush to develop the vaccine?

Yes because a rush was caused by the transmissibility & mortality rate of the illness, both of which were high.