

Microbiology
Study Guide
C22 – Diseases of the Nervous System

1. What is the normal biota of the nervous system?
2. What may cause inflammation?
3. What are the good and bad features of the blood brain barrier?
4. How is the BBB affected by inflammation?
5. What three bacteria are most likely to cause meningitis?
6. What micro causes listeriosis?
7. What common food borne outbreak is often associated with *Listeria monocytogene*? Why?
8. What causes tetanus, *Clostridium tetani* or tetanospasmin toxin? Explain
9. What type of microbe is the *Clostridium botulinum*?
10. What type of paralysis is caused by *C. botulinum*? Why?
11. Why are babies not supposed to eat honey?
12. What type of microorganism causes Poliomyelitis?
13. How does polio kill?
14. When and where do the Rabies Virus become “fatal”?
15. What are the two forms of Rabies?
16. When an animal is infected with the rabies virus, which glandular tissue will have a high concentration of the virus?
17. What is the meaning of Arboviral?
18. What are three viruses that may cause Arboviral Encephalitis?
19. What organism in Northern California causes Cryptococcosis?
20. What is the portal of entry for *Naegleria fowleri*? Disease cause? Fatality rate?

21. What does the word Prion stand for?
22. What type of disease is caused by Prions?
23. What is unique about how Prions transmits disease compared to other forms of diseases?

Additional Questions (added 3/22/2017)

1. Why is it difficult to treat brain infections?
2. What three bacteria are likely to cause meningitis?
3. What is the most effective control of mosquito borne diseases?
4. What is the difference between tetanus toxoid and tetanus immune globulin? When used?
5. What time of the year is encephalitis more common?
6. Why would you sample the cerebral spinal fluid if someone has fever, headache and stiff neck?
7. What is chronic fatigue syndrome?
8. What is the meaning of a arbovirus? Vector and diseases caused?
9. What disease is caused by Naegleria fowleri? Transmitted by what type of organism?
10. What is poliomyelitis? Significant factoid?
11. What is more dangerous, bacterial or viral encephalitis?