**BMT Study Guide – Infectious Diseases**

1. Review the power points on:
   1. Chain of transmission
   2. Classes of pathogenic microorganisms
   3. Infectious disease causative agents
   4. Role of Public Health
   5. Measures to control infectious diseases
2. Review the emerging and re-emerging disease cards we made at the beginning of this unit
3. Refer to the quizlet terms for this unit
4. Be able to define the following:
   1. Epidemiology
   2. immunity
   3. Direct contact transmission
   4. Indirect contact tranmission
   5. Anerobic organisms
   6. Aerobic organisms
   7. Normal flora
   8. Opportunistic infection
   9. Herd immunity
   10. Nonspecific anatomic barriers
   11. Specific host defenses
   12. Nosocomial infections
5. Know these Pathogen classes:
   1. Virus
   2. Bacteria
   3. Protozoa
   4. Prion
   5. Fungi
   6. Helminth
6. Identify the steps in the chain of infection
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Reservoir /Vector
   3. Portal of exit
   4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   6. Compromised host
7. Identify the roles of the following organizations:
   1. WHO \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. NIH \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. CDC \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. FDA \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Bacteria are classified by shape. Describe the shape of the following classes and give an example:
   1. Cocci \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Bacilli \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Spirilla \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Define how the following Aseptic processes affect microorganisms:
   1. Antisepsis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Disinfection \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Sterilization \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. What is the most significant way to prevent the direct transmission of infectious disease? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Fungi are plantlike organisms present in yeasts, molds and beer
11. Protozoa are one celled animal-like organisms found in contaminated water and decayed materials in the soil
12. Prions are proteins in a misfolded form that caused brain function deterioration
13. Mosquitos are the vectors in TROPICAL areas. Mosquito spraying programs seek to “KILL” the insects with pesticides.
14. People taking antibiotics are more susceptible to opportunistic infections such as Candida.
15. Diseases (know the causative agents, the reservoir/vector, portal of exit, mode of transmission, portal of entrance, signs/symptoms):
    1. Malaria

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* 1. Trichinosis (round worm)

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* 1. Tetanus

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* 1. Rickettsia

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* 1. Bubonic plague

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* 1. Mad cow disease

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* 1. Ringworm

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* 1. AIDS

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