TITLE

NAME

CHAMBERLAIN UNIVERSITY

DATE

**Abstract**

Overall summary of the most important details of the article summary and pathogen information. (5-7 sentences)

**Article Summary**

Summary of approved article in your own words (5-7 sentences)

**Pathogen Information**

**Classification of microorganism-** Domain- prokaryote or eukaryote or virus, general characteristics of the family and genus to which this pathogen belongs- for example virus can have different extra cellular or intracellular forms, bacteria can be endospore forming, capsule producing, eukaryotes can have another host. Include how it relates to the information covered in class- which chap number and what was taught.

**Cellular/ structural (in case of viruses) characteristics.** Add information here about morphology, cellular characteristics, genome (RNA or DNA in case of viruses) and gram stain characteristics, virulence factors. Explain why this information is important. Include how it relates to the information covered in class- which chap number and what was taught.

**Susceptibility to antibiotics/ antiviral or antifungals**. Describe the class of antimicrobial drug, and why they are effective in destroying these microbes and why is this particular drug more effective based on their structure. What is the mode of action for viral or eukaryotic infection? Antibiotic resistance can also be described here, if applicable to the organism. Include how it relates to the information covered in class- which chap number and what was taught.

**Growth conditions.** Host cells, nutritional needs, growth conditions. Use the relevant vocabulary discussed in this class: nutritional needs - phototroph, chemotroph, autotroph, heterotroph; growth conditions- barophile, halophile, psychrophile, etc. pathogen like mammals, birds, reptiles or secondary hosts in protozoan parasites. Types of life cycle- lytic or latent. Include how it relates to the information covered in class- which chap number and what was taught.

**Evasion of immune system.** Describe how it evades the immune system and mode of invasion into the host(s). This should be related to the virulence factors described in cellular characteristics. Include how it relates to the information covered in class- which chap number and what was taught.

**Disease(s) caused, symptoms, diagnosis, and therapeutic interventions.** Describe interactions with the hosts and diseases caused and body systems that are affected; description of symptoms when the pathogen infects a host; and diagnosis used in clinical setting to identify infection, the principle of dignostic technique and therapeutic intervention needed. Include how it relates to the information covered in class- which chap number and what was taught.

**THE ABOVE INFORMATION SHOULD BE 2 PAGES LONG**

References

Reference 1 in the current APA format.

Reference 2 in the current APA format.