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| Epidemiology Paper |   |

Write a paper (2,000-2,500 words) in which you apply the concepts of epidemiology and nursing research to a communicable disease. Refer to "Communicable Disease Chain (page 4 below)," "Chain of Infection," and the CDC website for assistance when completing this assignment.

***Communicable Disease Selection***

1. Chickenpox
2. Tuberculosis
3. Influenza
4. Mononucleosis
5. Hepatitis B
6. HIV
7. Ebola ( MY choice)
8. Measles
9. Polio
10. Influenza

***Epidemiology Paper Requirements***

1. Describe the chosen communicable disease, including causes, symptoms, mode of transmission, complications, treatment, and the demographic of interest (mortality, morbidity, incidence, and prevalence). Is this a reportable disease? If so, provide details about reporting time, whom to report to, etc.

Rubric criteria: Overview describing the demographic of interest and clinical description of the communicable disease is presented with a thorough, accurate, and clear overview of all of the clinical descriptors.

1. Describe the social determinants of health and explain how those factors contribute to the development of this disease.

Rubric criteria: Paper comprehensively discusses the determinants of health in relation to the communicable disease, explains their contribution to disease development, and provides evidence to support main points.

1. Discuss the epidemiologic triangle as it relates to the communicable disease you have selected. Include the host factors, agent factors (presence or absence), and environmental factors. Are there any special considerations or notifications for the community, schools, or general population?

Rubric criteria: The communicable disease is described thoroughly, accurately, and clearly within an epidemiological triangle. A visual description of the triangle and how the components of the model interact is included.

1. Explain the role of the community health nurse (case finding, reporting, data collection, data analysis, and follow-up) and why demographic data are necessary to the health of the community.

Rubric criteria: Discussion of the role of the community health nurse is clear, comprehensive, and inclusive of the community nurse's responsibilities to primary, secondary, and tertiary prevention through tasks such as case finding, reporting, data collection and analysis, and follow-up. A clear explanation of the importance of demographic data to community health is presented.

1. Identify at least one national agency or organization that addresses the communicable disease chosen and describe how the organizations contribute to resolving or reducing the impact of disease.

Rubric criteria: An agency or organization is identified. A clear and accurate description of efforts to address communicable disease is offered.

1. Discuss a global implication of the disease. How is this addressed in other countries or cultures? Is this disease endemic to a particular area? Provide an example.

Rubric criteria: A discussion of the global implication of the disease is clear, comprehensive, and inclusive with a comprehensive description of how this is addressed in other countries or cultures and if the disease is endemic to a particular area. An example is provided.

A minimum of three peer-reviewed or professional references is required.

Prepare this assignment according to the guidelines found in the APA Style Guide, located in the Student Success Center. An abstract is not required.

Thesis is comprehensive and contains the essence of the paper. Thesis statement makes the purpose of the paper clear.

This assignment uses a rubric. Please review the rubric prior to beginning the assignment to become familiar with the expectations for successful completion.

You are required to submit this assignment to LopesWrite. Refer to the [LopesWrite Technical Support articles](https://support.gcu.edu/hc/en-us/sections/360001963394-LopesWrite%22%20%5Ct%20%22_blank) for assistance.

Helpful Literature

Use the media piece "Chain of Infection" to assist you in completing your Topic 2 assignment.

URL:

<http://lc.gcumedia.com/nsg403c/chain-of-infection/chain-of-infection-v1.1.html>

Explore the Centers for Disease Control and Prevention (CDC) website.

URL:

<https://www.cdc.gov/>

Explore the 2017 National Notifiable Conditions (Historical) page of the Centers for Disease Control and Prevention (CDC) website.

URL:

<https://wwwn.cdc.gov/nndss/conditions/notifiable/2017/>

Explore the U.S. Department of Health and Human Services (HHS) website.

URL:

<https://www.hhs.gov/>

Read "Social Determinants of Health," from the Healthy People 2020 website.

URL:

<http://www.healthypeople.gov/2020/topicsobjectives2020/overview.aspx?topicid=39>

Explore the World Health Organization (WHO) website.

URL:

<http://www.who.int/en/>

Explore the Families USA website.

URL:

<http://www.familiesusa.org/>

**Communicable Disease Chain**