**NR586NP Week 4 Application of Epidemiology Assignment Template**

**Name**:

**General Instructions**

* Carefully read the assignment guidelines and rubric.
* Complete the Application of Epidemiology template below to answer the questions related to your investigation. Use complete sentences. Use of this template is required. If the template is not used, a 10% deduction will be applied. See the rubric. Save the template and include your name in the file name.
* Follow APA grammar, spelling, word usage, and punctuation rules consistent with formal, scholarly writing.
* Provide an in-text citation from three scholarly sources to support your writing.
* Abide by Chamberlain University's academic integrity policy.
* Submit the completed Application of Epidemiology template to the Week 4 Assignment Dropbox.

Include the following sections (detailed criteria listed below and in the grading rubric

**Prevalent Infectious and Chronic Diseases**

1. Describe the selected geographic region.
2. Identify the prevalent infectious and chronic diseases in the region.
3. Compare and contrast the prevalence of diseases in the selected region with disease rates and trends in a different geographic area of your choosing, noting similarities and differences.
4. Discuss the variables that contribute to the noted similarities and differences.
5. Provide an in-text citation from one scholarly source to support your writing.

**Application of the Epidemiological Model**

1. Select and describe one of the prevalent diseases noted in the previous section.
2. Discuss physical and social determinants of health that influence the disease process.
3. Identify and explain one epidemiological model that will be applied to the selected disease (i.e., Epidemiological Triangle, Web of Causation, or another legitimate epidemiological model).
4. Apply the epidemiological model to the selected disease in a well-developed, comprehensive manner, addressing the entire model.
5. Provide an in-text citation from one scholarly source to support your writing.

**Levels of Prevention**

1. Explain the levels of prevention used within population health practice.

1. Discuss one primary prevention to address the disease.

1. Discuss one secondary prevention to address the disease.

1. Discuss one tertiary prevention to address the disease.

e. Provide an in-text citation from one scholarly source to support your writing.

**Reflection**

1. Describe how the advanced practice nurse can monitor the application and efficacy of the prevention strategy.

1. Discuss how you will apply the identified prevention strategies in your practice.

1. Reflect on what you have learned from this assignment.

**References**

**Include the following sections:**

**Prevalent Infectious and Chronic Diseases:** Provide an in-text citation from one scholarly source to support your writing.

1. Describe the selected geographic region.

1. Identify the prevalent infectious and chronic diseases in the region.

1. Compare and contrast the prevalence of diseases in the selected region with disease rates and trends in a different geographic area of your choosing, noting similarities and differences.

1. Discuss the variables that contribute to the noted similarities and differences.

**Application of the Epidemiological Model:** Provide an in-text citation from one scholarly source to support your writing.

1. Select and describe one of the prevalent diseases noted in the previous section.
2. Discuss physical and social determinants of health that influence the disease process.
3. Identify and explain one epidemiological model which will be applied to the selected disease (i.e., Epidemiological Triangle, Web of Causation, or another legitimate epidemiological model).
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**Levels of Prevention:** Provide an in-text citation from one scholarly source to support your writing.

1. Explain the levels of prevention used within population health practice.

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**Reflection**

1. Describe how the advanced practice nurse can monitor the application and efficacy of the prevention strategy.

1. Discuss how you will apply the identified prevention strategies in your practice.

1. Reflect on what you have learned from this assignment.

**References**