

Group Presentation

The Anatomy and Physiology of Chronic Diseases

I. Summary – What is this activity about?

Chronic diseases affect a wide range of individuals and have an even wider range of symptoms. In this assignment, you will conduct research as a group on one chronic disease of your choice. The only restriction on the type of disease you can choose is that it must be a group decision and it must be something you are likely to see in your professional career. It is the hope that each group will consider a different chronic disease to maximize the variety in each class.

II. Objectives – What will I be able to do?

You will learn how to conduct research in the medical field on a particular chronic disease. This presentation should reinforce your understanding of many of the body systems and how they work. I encourage all of you make the most out of this presentation so that you can have a full appreciation for the wide effects a chronic disease can have.

III. Connection – How does this activity fit into the course and how does it connect to what I already know

We have talked in class about what makes up a cell and how those organelles function to make the cell able to function properly. We will be discussing a number of systems of the human body and how they function. This presentation will reinforce your understanding of the cellular mechanisms and bridge those with the anatomy and physiology of the human body while discovering the particular effects of a chronic disease.

IV. Resources needed – What material do I need?

You will need your group and a single chronic disease that you are all interested in researching. You will need to meet with your lab group outside of class at least four times to discuss the research you have found regarding your part of the presentation. You will need outside research material. **Each member of the groups needs to have at least 2 unique outside research resources.** All students in the group are responsible for knowing all information in the final presentation.

V. Procedure – What will I be doing?

As a group, you will be creating a 15-20 minute presentation on some chronic disease. You will discuss many aspects of this disease in relation to anatomy and physiology. You will need to conduct some research on your own to find the information needed about that disease. The format of the presentation should include four sections, (1) Introduction, (2) Symptoms of the Disease, (3) Current and/or Future Treatments, and (4) Summary. The Introduction should focus on the basic information about the disease including the systems, tissues and cells affected, the mechanism for the disease on a cellular level if known, the population it affects, and the age

range of onset. Remember that you need to fit this all in a 15-20 minute presentation so it behooves you all to practice it at least once before giving the presentation.

VI. Requirements – What is due and when?

Design and give a presentation 15-20 minutes in length. You may want to consider the following as a guide the detail level I am looking for.

1. Discuss the causation/indicators of the disease in general.
 1. What are the symptoms of the disease?
 2. When is the disease usually detected?
 3. Can the disease be detected before birth? If so, what kind of testing is used and what is the most common outcome?
 4. How is the disease detected after birth?
 5. How long does the individual with the disease usually live?
 6. Is there a current treatment for the disorder? If so, what is being done? If not, what kinds treatments are expected to be available in the future?
 7. Is the disease passed on to the next generation? If so, what is the likelihood it will show up again?
 8. What specifically, with regards to cellular function, causes the disease?
2. Anatomically, what does this disease affect?
 1. What are the specific features of the anatomical change?
 2. In what system does the anatomical change occur?
 3. What types of cells does the anatomical change affect?
 4. What types of problems does this create for the entire system?
 5. What types of problems does this create for the entire body?
 6. Can this anatomical change be corrected? If so, in what ways? If not, how might an individual live with such an anatomical change?
3. Physiologically, what does the disease affect?
 1. What changes physiologically in the cell mechanism?
 2. In what system does the physiological change occur?
 3. What types of cells does the physiological change affect?
 4. What types of problems does this create for the entire system?
 5. What types of problems does this create for the entire body?
 6. Can this physiological change be corrected? If so, in what ways? If not, how might an individual be able to live with such a physiological change?
4. Summarize your information.
 1. Discuss all aspects of the disease in relation to the entire human body and the way it affects individuals.
 2. Discuss the quantity vs. quality of life issues involved in this disease.

VIII. Evaluation – How will I be evaluated?

This assignment will be worth 100 points. Each of you will receive a maximum of 100 points for your contribution to the presentation. You will be graded on the sections you had contributed, your participation in the group, the quality of the overall presentation, the outline, and the rough draft. The breakdown is shown.

Your contribution to the presentation:	40 points
Your participation in the group:	30 points
Overall quality of the presentation:	<u>30 points</u>
Total:	100 points