

BACTERIAL WANTED POSTER ACTIVITY

You will produce a “Wanted” poster for a particular bacterial pathogen, like the “Wanted” posters that the police use to identify and locate criminals. Select a pathogen from the list below or if there is another bacterial pathogen that you would like to use, get approval from your teacher. There are enough pathogens on the list so students from the same class should NOT be working on the same pathogen. (Your project will not be graded if you choose an organism not on the list below or not approved by your teacher ahead of time!) Use the instructions on the back to produce your poster. **This is a major grade project.**

BACTERIAL DISEASES

Pathogen	Disease
Bacillus anthracis	Anthrax
Bordetella pertussis	Whooping cough
Clostridium botulinum	Botulism
Clostridium perfringens	Gas gangrene
Clostridium tetani	Tetanus
Corynebacterium diphtheria	Diphtheria
Escherichia coli	Acute pyelonephritis
Francisella tularensis	Tularemia or rabbit fever
Hemophilus influenzae	Meningitis
Lactobacillus acidophilus	Cavities
Mycobacterium leprae	Leprosy (Hansen's disease)
Mycobacterium tuberculosis	Tuberculosis
Neisseria gonorrhoeae	Gonorrhea
Neisseria meningitidis	Spinal meningitis
Rickettsia rickettsii	Rocky Mountain Spotted Fever
Rickettsia prowazekii	Typhus
Salmonella typhi	Typhoid fever
Salmonella typhimurium	Food poisoning
Shigella dysenteriae	Dysentery
Streptococcus mutans	Cavities
Streptococcus pneumoniae	Pneumonia
Streptococcus (group A)	Scarlet fever
Streptococcus (group A)	Rheumatic fever
Treponema pallidum	Syphilis
Treponema pertenue	Yaws
Vibrio cholerae	Cholera
Yersinia pestis	Plague

Your project will be due by 8:30AM on: **Monday, March 1, 2010**

Project Description:

Your poster should be done on 8.5" x 11" paper. You want to produce a poster that is eye-catching and conveys information in an easy to understand way. The more creative the poster, the more likely someone is going to stop and read it. You need to be sure your poster clearly explains your topic and expresses the information using pictures, statistics, graphs, charts, or other creative methods of communicating information. The poster needs to be creative as well as informative. Your poster should include:

1. Color "photo" (electron micrograph or microscopic picture/diagram)
2. Organism's m.o. (police jargon) (How the organism attacks and spreads)
3. Most common victims it preys upon (Specific organ or organ system it attacks)
4. Hide out of the culprit (where it is most likely to be found)
5. Most common injury done to victim (if possible, include a color photo of symptoms)
6. Is it considered armed and dangerous? Rate the degree of damage caused
7. Number of victims
8. Most effective weapons against the pathogen (Medicines, medical procedures, or preventive measures against it)

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- You must have at least five sources for your project. These sources must be listed on the back of your poster below the additional information.
 - You must come up with 5 questions that pertain to your poster and topic. You will turn in your questions, with the answers, on the day the project is due. These questions will be compiled into a handout that other students will answer by looking at your poster (3 questions) and listening to your presentation (2 questions). You will be graded on the questions you provide so make sure: (A) they can be answered by studying your poster and (B) they are not too simple. Please make sure the questions and answers are TYPED. Please put your name and the name of your bacteria/disease on the questions and answers page. The questions and answers should be together on a separate sheet of paper from the poster.
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Additionally, you are to include information about your bacteria based on the list below. This should be also be typed and printed on the back of your poster, and then followed by your bibliography..

1. Symptoms: What are the presenting symptoms of this disease? Are any of these symptoms particularly characteristic of this disease? Is this disease chronic or acute? Lethal or non-lethal?
2. Cause: Describe the agent in **DETAIL**. What is its classification? To what other organisms is it related? What is known about its structure? How does the infectious agent interact with the body to produce the symptoms of the disease? What cells or tissues does it infect and how does it damage those cells or tissues?
3. Transmission: How is this disease transmitted from host to host? If there is a vector involved, describe the interaction between pathogen, host and vector in **DETAIL**.
4. Epidemiology: Where did this disease first emerge? Is it endemic to a particular area, or pandemic? Has it erupted in periodic epidemic outbreaks? If so, where and when? Describe the spread of this disease through a population or around the world, if applicable. What human actions are related to the spread of this disease? Be specific.
5. Treatment: How is this disease treated? If a vaccine is available, describe the components of the vaccine and discuss its effectiveness. If antibiotics are used, discuss the effectiveness of this treatment. What problems currently exist with treatment strategies?
6. Prognosis for the future: How is this disease likely to affect us in the future? Will we be able to eradicate it, or will it continue to threaten humans? Why?

****Keep in mind that a "Wanted Poster" is neat, direct, and organized - not just a jumble of words!**

****Be mindful NOT to plagiarize. You may **NOT** copy and paste from the internet.**