Bacteria Wanted Poster or Power point Research Project

**Background**

Students will research one bacterial pathogen and produce a “wanted poster or power point”

**Student Requirements:**

Students select a pathogen from the list below or select one off the list. They will then produce a wanted poster or power point with the given parameters.

**Pathogen**

|  |  |
| --- | --- |
| Bacillus anthracis | anthrax |
| Bordetella petussis | Whooping cough |
| Clostridium botulinum | botulism |
| Clostridium tetani | tetanus |
| Corynebacterium diphtheria | diptheria |
| Escherichia coli | Acute pyelonephritis |
| Francisella tularensis | Tularemia or rabbit fever |
| Hemophilus influenzae | meningitis |
| Clostridium perfringens | Gas gangrene |
| Latobacillus acidiphilus | cavities |
| Mycobacterium leprae | Hansen’s disease or leprosy |
| Mycobacterium tuberculosis | tuberculosis |
| Neisseria gonorrhoeae | gonorrhoea |
| Neisseria meningitidis | Spinal meningitis |
| Rickettsia richettsii | Rocky mountain spotted fever |
| Rickettsia prowazekii | typhus |
| Salmonella typhi | Typhoid fever |
| Shigella dysenteriae | dysentery |
| Salmonella typhiurium | Food poisoning |
| Streptococcus mutans | cavities |
| Streptococcus pneumonia | pneumonia |
| Streptococcus (group A) | Scarlet fever |
| Streptococcus ( group A) | Rheumatic fever |
| Treponema pertenue | yaws |
| Treponema pallidum | syphilis |
| Vibro cholerae | cholera |
| Yersinia pestis | plague |

**Rubrick**

**The poster must contain the following:**

**Each section is worth 10 points**

**Any missing or incomplete material will be docked accordingly**

1. **Photo ( electron micrograph or microscopic picture with magnification labeled)**
2. **Description: including gram stain**
3. **Organism’s m.o. ( how the organism attacks and spreads)**
4. **Most common victims to prey upon**
5. **Hideout of the culprit ( where would it be found in the body and in the environment)**
6. **Most common injury done to victim**
7. **Is it considered armed and dangerous? Rate the degree of damage caused, is there a mortality rate**
8. **Number of victims**
9. **Most effective weapons against the germ**
10. **Any other identifying characteristics**
11. **History or any interesting facts, unusually characteristics**