

Problem 5B Public Health Mission File

CASE BRIEF

At 7:30 am this morning, the state health department received a call from a doctor at a nearby hospital. The doctor called to report that the hospital had admitted two patients presenting with unexplained high fever in the past week. Patient symptoms include fatigue, muscle weakness, dizziness, chills, and headaches. By yesterday afternoon, three additional patients were presenting with similar symptoms. A cause for these symptoms has yet to be identified. Unfortunately, with every day that goes by without proper treatment, patient symptoms are getting progressively worse.

MISSION STATEMENT

You are facing a public health emergency. As an epidemiologist from the state's health department, it is your job to investigate this cluster of cases. Your mission is to evaluate patient diagnostic test results to identify the mystery illness, assess evidence to deduce the source of the illness, design and analyze an epidemiological study to test the proposed source, and plan control and prevention efforts to limit future cases of the mystery illness. You will use the practical experience that you have gained tracking a mystery illness as you identify a local, national, or global public health crisis and write a mini-grant proposal, outlining an intervention plan.

START HERE - [Project 5.1.1B Disease Detectives](#)

ADDITIONAL INVESTIGATIVE RESOURCES

Work through the assigned activities and projects to gain knowledge you will need to solve your problem. Many of the skills that you will acquire will be used as you are presented with more challenging and open-ended problems later in the course. Catalog your resources and refer to these documents as needed throughout the year.

Problem 5 Key Terms and Essential Questions
Project 5.1.1
<ul style="list-style-type: none">• Project 5.1.1B Disease Detectives
<ul style="list-style-type: none">• Project 5.1.1B Illness Complaint Worksheet
<ul style="list-style-type: none">• Investigative Findings and Evidence Log B
<ul style="list-style-type: none">• Project 5.1.1 Epidemiology Study Design Resource Sheet
<ul style="list-style-type: none">• Project 5.1.1 Epidemiology Study Analysis Practice Problems
<ul style="list-style-type: none">• Project 5.1.1B Epidemiology Study Evidence
<ul style="list-style-type: none">• Project 5.1.1B Evidence Report #1
<ul style="list-style-type: none">• Project 5.1.1B Evidence Report #2
Activity 5.1.2
<ul style="list-style-type: none">• Activity 5.1.2 Public Health in the News
<ul style="list-style-type: none">• Activity 5.1.2 Article Organizer
Problem 5.1.3
<ul style="list-style-type: none">• Problem 5.1.3 Combating a Public Health Issue
<ul style="list-style-type: none">• Problem 5.1.3 Grant Proposal Guidelines
Grant Student Examples
<ul style="list-style-type: none">• Student Grant Example A- Educational Programs toward Heroin
<ul style="list-style-type: none">• Student Grant Example B- Stress Reducing Programs in Restaurant Industry
<ul style="list-style-type: none">• Student Grant Example C- Eradicating Tuberculosis in Ethiopia
Reflection
<ul style="list-style-type: none">• Mission Reflection
<ul style="list-style-type: none">• Peer Evaluation
Rubrics
<ul style="list-style-type: none">• Grant Proposal Rubric
<ul style="list-style-type: none">• Grant Proposal Presentation Rubric
<ul style="list-style-type: none">• Reflection Rubric
<ul style="list-style-type: none">• Peer Evaluation Rubric