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# Potential Meningococcal Disease Case Detected in a Miami University Student

## Description

Public health officials in Butler County, Ohio are conducting a probe into an alleged instance of meningococcal disease reported in a scholar attending Miami University. The Butler County General Health District made public the putative case in a statement issued on Thursday. Subsequently, they emphasized their commitment to pinpoint individuals that have been in proximate contact with the affected scholar and issuing them prescriptions for antibiotic treatment.

Simultaneously, officials stressed on their collaborative endeavors with the university, the Ohio Department of Health, and other node entities to provide for exhaustive contact tracing and disseminate thorough knowledge about this seldom seen, yet conceivably lethal and debilitating disease.

In an announcement on Thursday evening, Miami University iterated that the Butler County General Health District is reaching out to students potentially exposed through close contact with the afflicted student. Their objective is to impart indispensable information regarding symptoms to keep a keen eye out for and to offer measures for prophylactic, anticipatory treatment.

For scholars who haven't been contacted by the Butler County General Health District, it can be conjectured that they were not identified as subjects of high-risk close contact.

Meningococcal disease is an anomalous, albeit life-threatening and potentially disabling bacterial infection induced by a bacterium known as *Neisseria meningitidis*. This infection can provoke serious or protracted complications. The most likely form of invasive meningococcal infection is meningitis. Conversely, *Neisseria meningitidis* can occasionally cause diseases like conjunctivitis, pneumonia, occult bacteremia (a hidden infection in the blood), septic arthritis or chronic meningococcemia.

There are two frequent categories of meningococcal disease - meningitis, which is when the membrane of the brain and spinal cord keeps getting infected and swells, and septicemia, characterized by bacteria invading the bloodstream, inflicting damage to the blood vessels, and spanning bleeding.

Signs of the disease are multifaceted and ambiguous but can commonly encompass an abrupt onset of fever, intense headache, stiff neck, joint pain, a rash of red-purple spots or contusions, aversion to bright lights, and symptoms suggestive of upset stomach like nausea and/ or vomiting.

The disease can be transferred from one individual to another through respiratory droplets and pharyngeal secretions, such as saliva or spit. However, casual contact or inhaling the air where someone with meningococcal disease has been does not result in contraction of the disease.

Anyone harboring doubts or seeks to clarify their understanding is beseeched to get in touch with the Butler County General Health District at 513-863-1770. While Miami's Health Services will not be privy to divulge additional specifics about this particular case, they stand equipped to provide medical care to ailing students. They can be reached at 513-529-3000 to fix an appointment.



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## Vocabulary List:

1. **Proximate** // (adjective): Very close to something; immediately neighboring
2. **Prescriptions** // (noun): A written instruction from a doctor for the preparation and use of a medicine
3. **Conceivably** // (adverb): In a way that can be imagined or thought of
4. **Disseminate** // (verb): To spread or disperse something, especially information, widely
5. **Anticipatory** // (adjective): Relating to or characterized by anticipation; done in preparation for something expected
6. **Prophylactic** // (adjective): Intended to prevent disease; protective

## Vocabulary quizzes

### Multiple Choice ( Select the Correct answer for each question. )

1. Which term refers to the rapid increase or spread of something?  
Option: A) Proximate



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- Option: B) Affliction  
Option: C) Proliferation  
Option: D) Devastating
2. What are medications used to lower a fever called?  
Option: A) Antipyretics  
Option: B) Exacerbated  
Option: C) Meningitis  
Option: D) Polygenic
3. Which field of science involves the study of genes and their functions?  
Option: A) Proximate  
Option: B) Genomics  
Option: C) Prescriptions  
Option: D) Infamous
4. Which term means possibly or potentially?  
Option: A) Conceivably  
Option: B) Influx  
Option: C) Coined  
Option: D) Haemorrhage
5. What type of trait is influenced by multiple genes?  
Option: A) Malicious  
Option: B) Polygenic  
Option: C) Validity  
Option: D) Devastating
6. Which term means to spread or disperse something widely?  
Option: A) Disseminate  
Option: B) Anticipatory  
Option: C) Malicious  
Option: D) Comprehensive
7. What is a developing human or animal called in the early stages of growth?  
Option: A) Infamous  
Option: B) Embryo  
Option: C) Interaction  
Option: D) Malicious
8. Which term refers to a sudden arrival or increase of something?  
Option: A) Devastating  
Option: B) Meningitis



- Option: C) Influx  
Option: D) Prophylactic

9. Which term indicates a desire to harm others or see them suffer?

- Option: A) Anticipatory  
Option: B) Malicious  
Option: C) Gamut  
Option: D) Haemorrhage

10. Which term means necessary and important as a part of the whole?

- Option: A) Convulated  
Option: B) Integral  
Option: C) Validity  
Option: D) Meningitis

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. The lack of rain \_\_\_\_\_ the drought situation in the region.
12. After the doctor's diagnosis he wrote several \_\_\_\_\_ for the patient.
13. The accident victim suffered severe internal \_\_\_\_\_ and required immediate medical attention.
14. The textbook provided a \_\_\_\_\_ overview of the history of ancient civilizations.
15. The doctor advised taking a \_\_\_\_\_ medication before traveling to the malaria-prone region.
16. The criminal became \_\_\_\_\_ for his notorious acts in the city.
17. The earthquake had a \_\_\_\_\_ impact on the entire community.
18. He spread \_\_\_\_\_ rumors about his colleague to tarnish her reputation.
19. The legal document was so \_\_\_\_\_ that it took hours to decipher its meaning.
20. The cause of the mysterious illness remained \_\_\_\_\_ despite numerous tests.



**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. The two events happened at the same time and can be considered .
22. The experiment's results were questioned due to concerns about the of the data.
23. The cause of the fire was determined to be faulty wiring in the building.
24. Her excitement and nervousness before the job interview were due to her anxiety.
25. The term "global warming" was officially by scientist Wallace Smith in the 1970s.
26. The film festival showcased a of cinematic genres from around the world.
27. Height is an example of a trait influenced by multiple genes.
28. Her role as a teacher allows her to knowledge and inspire a love of learning in her students.
29. Doctors prescribe to reduce fever and alleviate symptoms of the flu.
30. Before traveling to a malaria-infested region it is advisable to take measures like using mosquito nets.

**Answer**

**Multiple Choice:** 1. C) Proliferation 2. A) Antipyretics 3. B) Genomics 4. A) Conceivably 5. B) Polygenic  
6. A) Disseminate 7. B) Embryo 8. C) Influx 9. B) Malicious 10. B) Integral

**Gap-Fill:** 11. exacerbated 12. prescriptions 13. haemorrhage 14. comprehensive 15. prophylactic 16.  
infamous 17. devastating 18. malicious 19. convoluted 20. intracable

**Matching sentence:** 1. concurrent 2. validity 3. proximate 4. anticipatory 5. coined 6. gamut 7. polygenic  
8. disseminate 9. antipyretics 10. prophylactic

**CATEGORY**

- 1. Health - LEVEL6

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