



Common Antibiotic Reveals Surprising Hidden Risks, Scientists Find

Description

A recent study conducted by the University of Michigan has shed light on the potential impact of antibiotic choices in the treatment of sepsis. The study focused on the use of piperacillin/tazobactam, a commonly prescribed antibiotic for sepsis, and its effects on patient outcomes.

During a 15-month national shortage of piperacillin/tazobactam, clinicians turned to an alternative antibiotic, cefepime, which has minimal impact on the gut microbiome. The study compared outcomes of patients treated with these two antibiotics and found that those treated with piperacillin/tazobactam experienced a 5% increase in 90-day mortality. This difference was also reflected in more days on a ventilator and increased time with organ failure.

The findings highlight the importance of considering the effects of antibiotics on the gut microbiome when treating life-threatening infections. Physicians are urged to carefully evaluate the use of anti-anaerobic antibiotics like piperacillin/tazobactam before prescribing them. The study's results suggest that choosing cefepime over piperacillin/tazobactam may lead to better outcomes for septic patients. This study provides valuable insights that could help improve patient care in emergency rooms and intensive care units nationwide.

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Vocabulary List:

1. **Sepsis** // (noun): A severe condition caused by infection leading to organ dysfunction.
2. **Antibiotic** // (noun): A type of medication that fights bacterial infections.
3. **Outcome** // (noun): The result or effect of an action or situation.
4. **Mortality** // (noun): The state of being subject to death death rate.
5. **Microbiome** // (noun): The collection of microorganisms in a particular environment.
6. **Ventilator** // (noun): A machine that helps with breathing by delivering air to the lungs.

Vocabulary quizzes

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

1. Which term refers to different types or kinds of something?
Option: Invasive
Option: Varieties
Option: Legacy
Option: Complications
2. Which insects are known for transmitting diseases like malaria and Zika?
Option: Varieties
Option: Traps
Option: Mosquitoes
Option: Interventions
3. Which term refers to something handed down from the past or a person's impact on future generations?
Option: Legacy
Option: Xenotransplantation
Option: Predispose
Option: Implications
4. What medical procedure involves moving an organ or tissue from one person to another?
Option: Transplant
Option: Influence
Option: Bold
Option: Sepsis



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5. Which term describes something innovative and pioneering?
Option: Outcome
Option: Microbiome
Option: Groundbreaking
Option: Defy
6. What type of medication is used to treat bacterial infections?
Option: Antibiotic
Option: Mortality
Option: Incurable
Option: Ventilator
7. Which term relates to chemicals that are involved in the functioning of the nervous system?
Option: Neurochemical
Option: Affect
Option: Beacon
Option: Implications
8. Which term describes a species that spreads rapidly and causes harm to its environment?
Option: Beacon
Option: Invasive
Option: Incursions
Option: Mourn
9. What medical procedure involves transplanting organs or cells between different species?
Option: Xenotransplantation
Option: Predispose
Option: Influence
Option: Revolutionize
10. Which term refers to the monitoring of an area activities or individuals?
Option: Complications
Option: Surveillance
Option: Mortality
Option: Traps

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

11. _____ into the forest by loggers can have devastating effects on wildlife populations.
12. Surgery always carries some risk of _____ which the doctor will discuss with you



before the operation.

13. The economic downturn had serious _____ for small businesses in the region.
14. Parents have a significant _____ on their children's development and behavior.
15. The study aimed to analyze the factors affecting infant _____ in underdeveloped countries.
16. The lighthouse acted as a _____ for ships navigating through the treacherous waters.
17. Patients with severe respiratory problems may require the assistance of a _____ to help them breathe.
18. The community came together to _____ the passing of a beloved teacher.
19. Genetic factors can _____ individuals to certain health conditions.
20. The research team set up mosquito _____ to monitor the population in the area.

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

21. The philanthropist left behind a of charitable work that continues to benefit the community.
22. involves the transplantation of organs or tissues from one species to another with the goal of saving human lives.
23. The new technological breakthrough has the potential to the way we approach healthcare.
24. Prompt treatment is crucial in managing severe cases of a life-threatening condition.
25. The recent policy changes are expected to a wide range of industries and businesses.
26. The remarkable recovery of the patient seemed to all medical expectations.
27. The company made a decision to enter a new market with innovative products.
28. The mayor took the opportunity to the efforts of the emergency responders during the crisis.



29. The study aimed to analyze the factors affecting infant in underdeveloped countries.

30. The gut plays a crucial role in digestion and overall health.

Answer

Multiple Choice: 1. Varieties 2. Mosquitoes 3. Legacy 4. Transplant 5. Groundbreaking 6. Antibiotic
7. Neurochemical 8. Invasive 9. Xenotransplantation 10. Surveillance

Gap-Fill: 11. Incursions 12. Complications 13. Implications 14. Influence 15. Mortality 16. Beacon 17.
Ventilator 18. Mourn 19. Predispose 20. Traps

Matching sentence: 1. Legacy 2. Xenotransplantation 3. Revolutionize 4. Sepsis 5. Affect 6. Defy 7. Bold
8. Commend 9. Mortality 10. Microbiome

CATEGORY

1. Health - LEVEL4

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