Science Time

Program Content for June 1, 2016

Read the article "Resistance to last-resort antibiotic found in the U.S." on page A2 of the Friday, May 27, 2016 edition of The Seattle Times.

<u>Pre-reading and Vocabulary</u>: Define each term and then use it in a sentence to demonstrate your understanding.

- 1. Antibiotic
- 2. Resistance
- 3. Microbe
- 4. immune

Comprehension Questions

- 1. What did U.S. military researchers recently identify?
- 2. Why is there concern that the recently identified case of a superbug could cause untreatable infections?
- 3. What is colistin?
- 4. What are CRE and why are they dangerous?
- 5. Where was the gene for resistance to colistin first found?
- 6. Describe the story of how colistin resistance was discovered in the United States?
- 7. What is E. coli?
- 8. How did the patient with a colistin resistant urinary infection contract this strain of bacteria?
- 9. What next steps will public-health workers take in regards to identifying colistin resistant bacteria.
- 10. What have infectious-disease doctors long warned about the overuse of antibiotics.

Prompts and Extensions

- 1. Watch this <u>news clip</u> as well as <u>this one</u> and read the associated stories that you'll find at the websites as a follow-up to the article you just read.
- Read the follow-up article, "Pressing issues surround antibiotics, superbugs," on page A9 of the Sunday, May 29 Seattle Times. The article highlights Frequently Asked Questions (FAQs) surrounding the topic of antibiotic resistance.
- 3. Watch video 6, 'Why does evolution matter now?' at this <u>website</u> to learn how antibiotic resistance is connected to evolution.

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