

Science Time

Program Content for June 10, 2015

Read the article “**Single test for all virus exposure opens doors for researchers**” on page A3 of the Friday, June 5, 2015 edition of The Seattle Times.

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

1. virus
2. antibody
3. immune
4. vaccine
5. cancer

Comprehension Questions

1. What are scientists now able to do with a test that uses less than a drop of blood?
2. How much does the new blood test cost?
3. What are some possible uses for the newly developed blood test? List at least 2.
4. How many different viruses can the blood test detect?
5. How does the blood test work?
6. How many different species of virus had most people taking the blood test been exposed to?
7. How did patterns of virus exposure differ from continent to continent?
8. What are two ‘real-world’ ways this blood test could be used?
9. What are two autoimmune diseases that could be affected by the type of antibodies a person has?
10. How could this new blood test help answer questions about cancer?
11. What were two surprises revealed by the blood test?
12. What is one limitation of the new blood test?

Prompts and Extensions

1. Listen to this [news story](#) about the new blood test and hear from the leading scientist, Dr. Elledge, who developed and took the test himself.
2. Learn more about how the immune system works and makes antibodies. Watch this [video clip](#) when finished, then take this [quiz](#) to test your knowledge.
3. Complete outside research on the virus of your choosing. Report back on the symptoms, treatments, how the virus spreads, what it looks like, and more. Start your research [here](#) on one of the following viruses. **Viruses** - Influenza (flu), Avian influenza, Genital Herpes (Herpes Simplex Virus), Hepatitis, HIV/AIDS, Human Papillomavirus (HPV),

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