



Seventh person in the world, a German man, appears to be cured of HIV

Description

A groundbreaking medical achievement has potentially cured a German resident of HIV, making him the seventh person worldwide to achieve this feat. The anonymous man underwent a stem cell transplant for acute myeloid leukemia in 2015 and stopped taking antiretroviral drugs in 2018. Subsequent tests have shown no trace of HIV in his body, placing him in a state of "viral remission."

Experts caution that the treatment undergone by these individuals is complex and not widely available. The key factor in these successful cases is finding bone marrow donors with a rare resistance to the HIV virus, specifically a defect in the CCR5 gene that makes immune cells resistant to infection.

The German patient is among six others who have been cured of HIV, including Timothy Ray Brown, Adam Castillejo, Marc Franke, Paul Edmonds, the "New York patient," and the "Geneva patient." Each case involved a stem cell transplant to treat blood cancer, leading to HIV remission. The significance of these cases lies in the hope for a future where HIV is no longer a life-threatening condition. This extraordinary medical milestone is set to be presented at the International AIDS Conference in Munich, garnering worldwide attention and acclaim.

Vocabulary List:

1. **Achievement** /ə'tʃi:v.mənt/ (noun): A thing done successfully typically by effort courage or skill.
2. **Transplant** /'træns.plænt/ (noun): An operation in which an organ or tissue is moved from one body to another.
3. **Resistant** /rɪ'zɪstənt/ (adjective): Not affected by something especially adversely.
4. **Complex** /'kɒmpleks/ (adjective): Consisting of many different and connected parts; not simple.
5. **Remission** /rɪ'mɪʃ.ən/ (noun): A decrease in the severity of disease or the absence of disease activity.
6. **Significance** /sɪg'nɪfɪkəns/ (noun): The quality of being worthy of attention; importance.

Comprehension Questions

Multiple Choice

1. What medical achievement has potentially cured a German resident of HIV?

Option: Kidney transplant



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- Option: Stem cell transplant
Option: Blood transfusion
Option: Chemotherapy
2. How many individuals including the German resident have been cured of HIV?
Option: 3
Option: 5
Option: 7
Option: 10
3. What is the key factor in the successful cases of curing HIV discussed in the text?
Option: Antibiotics
Option: Finding donors with CCR5 gene defect
Option: Physical therapy
Option: Radiation therapy
4. What is the state of the German patient who underwent the stem cell transplant?
Option: Viral progression
Option: Viral remission
Option: Viral infection
Option: Viral resurgence
5. Where is the International AIDS Conference set to take place?
Option: New York
Option: Berlin
Option: Munich
Option: Geneva
6. What kind of leukemia did the German patient have before the stem cell transplant?
Option: Chronic lymphocytic leukemia
Option: Acute myeloid leukemia
Option: Hairy cell leukemia
Option: Chronic myeloid leukemia

Answer

Multiple Choice: 1. Stem cell transplant 2. 7 3. Finding donors with CCR5 gene defect 4. Viral remission
5. Munich 6. Acute myeloid leukemia



Vocabulary quizzes

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

1. What term describes the ability to recover from difficulties?
Option: Inflammation
Option: Resilience
Option: Integrity
Option: Perseverance
2. What is the term for the collection of microorganisms in a particular environment?
Option: Bacteria
Option: Addiction
Option: Microbiome
Option: Crosstalk
3. What term refers to the mental action or process of acquiring knowledge and understanding?
Option: Achievement
Option: Cognition
Option: Transplant
Option: Obesity
4. What are measurable substances that indicate the presence of a biological process or condition?
Option: Therapies
Option: Incurable
Option: Biomarkers
Option: Devastating
5. What term describes a complex condition characterized by compulsive drug use?
Option: Incurable
Option: Achievement
Option: Addiction
Option: Prognosis
6. What is the term for a medical condition in which excess body fat has accumulated to an extent that it may have a negative effect on health?
Option: Prognosis
Option: Crosstalk
Option: Integrity
Option: Obesity



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7. What are specialized plant fibers that nourish the good bacteria already in the colon?
Option: Prebiotics
Option: Bacteria
Option: Resistant
Option: Mitigate
8. What term describes the ability of a microorganism to withstand the effects of medication?
Option: Resistant
Option: Complex
Option: Prognosis
Option: Mitigate
9. What term refers to the temporary or permanent disappearance of the signs and symptoms of cancer?
Option: Remission
Option: Perseverance
Option: Biodiversity
Option: Acidity
10. What term describes a community of living organisms interacting with one another and their physical environment?
Option: Mitigate
Option: Ecosystems
Option: Interconnectedness
Option: Acidity

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

11. _____ is the quality of being honest and having strong moral principles.
12. The disease had a _____ effect on his ability to perform daily tasks.
13. Multiple _____ is a type of cancer that forms in a type of white blood cell called a plasma cell.
14. The discovery held great _____ for the field of medicine.
15. The Amazon rainforest is known for its rich _____ of plant and animal species.
16. Efforts to _____ the effects of climate change are crucial for the future of the planet.



17. The immune system is a highly _____ network of cells and proteins.
18. The doctor provided a positive _____ for the patient's recovery.
19. His success was a result of hard work and _____ in the face of challenges.
20. Despite advances in medicine some diseases remain _____.

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

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| 21. Chronic has been linked to various health conditions including heart disease and diabetes. |
| 22. The earthquake had a impact on the small island nation destroying homes and infrastructure. |
| 23. A kidney can improve the quality of life for patients with end-stage renal disease. |
| 24. Winning the Nobel Prize was a significant for the scientist after years of research. |
| 25. The concept of global highlights the idea that actions in one part of the world can have far-reaching effects. |
| 26. Various medical are available to treat different types of cancer. |
| 27. Cellular plays a crucial role in coordinating responses to external stimuli. |
| 28. The pH level measures the degree of or alkalinity in a substance. |
| 29. The loss of biodiversity in the rainforest would be to the delicate ecosystem. |
| 30. Probiotics are live bacteria and yeasts that are good for your health especially your digestive system. |

Answer

Multiple Choice: 1. Resilience 2. Microbiome 3. Cognition 4. Biomarkers 5. Addiction 6. Obesity 7. Prebiotics 8. Resistant 9. Remission 10. Ecosystems

Gap-Fill: 11. Integrity 12. Debilitating 13. Myeloma 14. Significance 15. Biodiversity 16. Mitigate 17. Complex 18. Prognosis 19. Perseverance 20. Incurable

Matching sentence: 1. Inflammation 2. Devastating 3. Transplant 4. Achievement 5. Interconnectedness 6. Therapies 7. Crosstalk 8. Acidity 9. Devastating 10. Bacteria

CATEGORY



1. Health - LEVEL4

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