



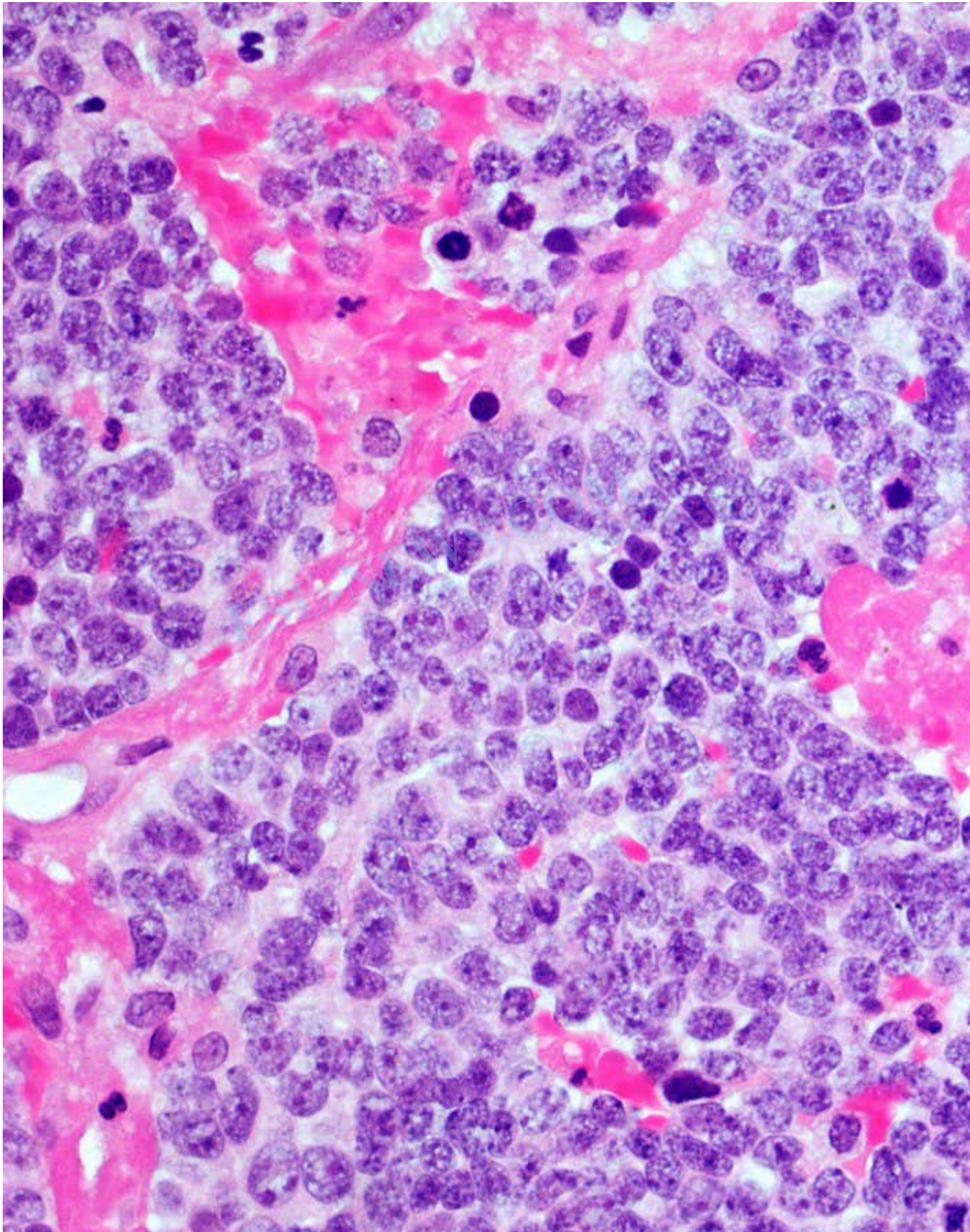
Revolutionary CAR T-cell Treatment Achieves Unprecedented Nerve Cancer Remission

Description

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A new cancer treatment using modified immune cells has helped someone stay cancer-free for 18 years.

Doctors use this treatment for blood cancer by modifying immune cells to fight cancer cells.

While this treatment is usually less effective for solid tumors like neuroblastoma, a patient treated in 2005 remains cancer-free after 18 years.

Researchers are surprised by these exceptional results and are now trying to improve the treatment for more success.

Understanding why some patients respond better than others is still uncertain, but genetic differences and tumor characteristics may play a role.

Future advancements in cell engineering may lead to more successful treatments for cancer patients.

Vocabulary List:

1. **Neuroblastoma** /ˌnjʊərəʊblæ'stoʊmə/ (noun): A type of cancer that develops from immature nerve cells often found in children.
2. **Modified** /'mɒdɪfaɪd/ (adjective): Changed in form or character often to improve or make more suitable.
3. **Exceptional** /ɪk'sɛpʃənəl/ (adjective): Unusual or not typical; extraordinary.
4. **Advancements** /əd'vɑːnsmənts/ (noun): Progress or improvements in a particular area such as technology or science.
5. **Characteristics** /ˌkærɪktə'rɪstɪks/ (noun): Features or qualities that make something distinct or recognizable.
6. **Response** /rɪ'spɒns/ (noun): An answer or reaction to something particularly in medical or scientific contexts.

Comprehension Questions

Multiple Choice

1. What type of cancer has the new cancer treatment using modified immune cells been successful in treating?

- Option: Blood cancer
- Option: Skin cancer
- Option: Breast cancer
- Option: Lung cancer

2. Why is the modified immune cell treatment usually less effective for solid tumors like neuroblastoma?



- Option: Lack of research on solid tumors
- Option: Inability of immune cells to target solid tumors
- Option: Genetic differences in patients with solid tumors
- Option: Resistance of solid tumors to immune cells

3. What are researchers trying to do in response to the exceptional results of the cancer treatment?

- Option: Abandon the treatment
- Option: Improve the treatment for more success
- Option: Keep the treatment as it is
- Option: Reduce the availability of the treatment

4. What role may genetic differences and tumor characteristics play in the response to the treatment?

- Option: None
- Option: Principal
- Option: Minor
- Option: Major

5. What is expected to result from future advancements in cell engineering?

- Option: Decrease in cancer cases
- Option: No impact on cancer treatment
- Option: More successful treatments for cancer patients
- Option: Increase in cancer mortality

6. Why are doctors modifying immune cells in the new cancer treatment?

- Option: To cause harm to the patient
- Option: To boost the immune system
- Option: To weaken the immune system
- Option: To fight cancer cells

True-False

7. The modified immune cell treatment has been successful in treating solid tumors like neuroblastoma.

8. Researchers have a complete understanding of why some patients respond better than others to the cancer treatment.

9. Genetic differences and tumor characteristics may not impact the response to the cancer treatment.



10. Doctors are not surprised by the exceptional results of the cancer treatment.
11. Future advancements in cell engineering are not expected to lead to more successful treatments for cancer patients.
12. The patient treated in 2005 for neuroblastoma did not remain cancer-free after 18 years.

Gap-Fill

13. The patient treated in 2005 remains cancer-free after _____ years.
14. Doctors use the new cancer treatment for blood cancer by modifying immune cells to fight cancer cells - this type of treatment is usually less effective for solid tumors like _____.
15. Understanding why some patients respond better than others to the cancer treatment is still _____.
16. Researchers are now trying to improve the cancer treatment for more _____.
17. Future advancements in cell engineering may lead to more successful treatments for cancer _____.
18. Genetic differences and tumor characteristics may play a role in the response to the cancer treatment, with genetic differences and tumor characteristics having a _____ impact.

Answer

Multiple Choice: 1. Blood cancer 2. Inability of immune cells to target solid tumors 3. Improve the treatment for more success 4. Major 5. More successful treatments for cancer patients 6. To fight cancer cells

True-False: 7. False 8. False 9. False 10. False 11. False 12. False

Gap-Fill: 13. 18 14. neuroblastoma 15. uncertain 16. success 17. patients 18. major

Vocabulary quizzes



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

1. Which type of products are considered environmentally sustainable and safe for ecosystems?

- Option: Biodegradable
- Option: Hazardous
- Option: Toxic
- Option: Synthetic

2. What provides legal protection for a new invention or process?

- Option: Intellectual Property
- Option: Copyright
- Option: Trademark
- Option: Open Source

3. What are distinctive qualities or characteristics of a product or service?

- Option: Bug
- Option: Flaw
- Option: Disadvantage
- Option: Attribute

4. Which type of cancer primarily affects children?

- Option: Breast Cancer
- Option: Prostate Cancer
- Option: Lung Cancer
- Option: Neuroblastoma

5. What describes something made by humans and not occurring naturally?

- Option: Organic
- Option: Authentic
- Option: Natural
- Option: Artificial

6. Which term refers to improvements or progress in a particular area?

- Option: Decline
- Option: Regress
- Option: Stagnation
- Option: Advancements

7. Which element has the chemical symbol "H" and atomic number 1?

- Option: Helium
- Option: Carbon
- Option: Oxygen



Option: Hydrogen

8. What is the right to keep personal information protected from misuse?

Option: Transparency

Option: Confidentiality

Option: Disclosure

Option: Privacy

9. What substance increases the rate of a chemical reaction without undergoing permanent changes itself?

Option: Inhibitor

Option: Modifier

Option: Reactant

Option: Catalyst

10. What is a renewable fuel produced by fermentation of sugars from crops like corn or sugarcane?

Option: Petrol

Option: Diesel

Option: Natural Gas

Option: Bioethanol

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

11. The company reported a significant increase in _____ this quarter.

12. The candidate's _____ and problem-solving skills were impressive.

13. The new software provides secure _____ to the database.

14. There is growing _____ about the impact of climate change on wildlife.

15. Please submit your _____ for vacation days in writing.

16. It is essential to _____ sensitive data to protect it from unauthorized access.

17. She is a strong _____ for animal rights and environmental conservation.

18. The new marketing campaign aims to _____ a younger audience.

19. The thrilling announcement is sure to _____ fans worldwide.

20. Their performance at the concert was truly _____ receiving a standing ovation.



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

21. Lignin is a complex organic polymer that hardens and strengthens the cell walls of plants.
22. This lotion deeply the skin keeping it hydrated and soft.
23. Sustainable practices aim to meet current needs without compromising the ability of future generations to meet their needs.
24. The company's new ad campaign targets a broader audience to increase sales.
25. The genetically crops showed increased resistance to pests.
26. The team praised her quick to the emergency situation.
27. Reducing emissions of is crucial in combating climate change.
28. Vinegar is primarily composed of water and .
29. The company's new AI system demonstrates advanced artificial .
30. Using as a fuel source can help reduce reliance on fossil fuels.

Answer

Multiple Choice: 1. Biodegradable 2. Intellectual Property 3. Attribute 4. Neuroblastoma 5. Artificial
6. Advancements 7. Hydrogen 8. Privacy 9. Catalyst 10. Bioethanol

Gap-Fill: 11. revenue 12. intelligence 13. access 14. concern 15. request 16. encrypt 17. advocate 18.
attract 19. excite 20. exceptional

Matching sentence: 1. Lignin 2. Moisturizes 3. Sustainable 4. Commercial 5. Modified 6. Response 7.
Greenhouse gases 8. Acetic acid 9. Intelligence 10. Bioethanol

CATEGORY

1. Sci/Tech - LEVEL2

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