



Breakthrough Drug Boosts Female Fertility: Promising Early Findings

Description

An increasing number of individuals are choosing to delay parenthood, with approximately one-third of couples facing difficulties conceiving if the woman is over 35 due to declining fertility. However, researchers are exploring the potential of rapamycin, a drug typically used in organ transplant patients, to extend a woman's fertile years by up to five years.

Preliminary results from a small pilot study suggest that rapamycin could have a positive impact on fertility, although further research is needed to confirm these findings. Studies in mice have shown that rapamycin can delay ovarian ageing and menopause, potentially offering hope for women facing premature menopause.

The drug works by limiting the recruitment and activation of primordial follicles, thus preserving the ovarian reserve. Although the initial study involved a small group, researchers are optimistic and plan to enroll a larger cohort to validate the results on a broader scale.

If proven effective, rapamycin could provide a new approach to treating ovarian ageing and prolonging fertility in women. This study underscores the importance of repurposing existing drugs for women's health and highlights the potential for further research in this area.

Stéphane Berneau, a Lecturer at the University of Central Lancashire, also explores repurposing diabetes drugs to enhance the uterus's receptivity for embryo implantation and investigate targets for ovarian cancer treatment.

Vocabulary List:

1. **Fertility** /fər'tɪləti/ (noun): The ability to conceive children or young.
2. **Ovarian** /oʊ'veəriən/ (adjective): Relating to the ovaries.
3. **Premature** /,pri:mə'tʃʊər/ (adjective): Occurring or done before the usual or expected time.
4. **Cohort** /'kəʊhɔ:rt/ (noun): A group of people banded together or treated as a group.
5. **Repurposing** /,ri:'pɜ:rpəsɪŋ/ (verb): Using something for a different purpose than originally intended.
6. **Validate** /'vælɪdeɪt/ (verb): To confirm or support the truth or value of something.

Vocabulary quizzes

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



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1. Which term describes a disease that can be easily transmitted from one person to another?
Option: Infectious
Option: Complications
Option: Vaccination
Option: Monitor
 2. Which condition is characterized by abnormal hemoglobin production?
Option: Haemoglobin
Option: Crispr
Option: Reprogrammed
Option: Fetal
 3. Which term refers to the criteria individuals must meet to participate in a research study?
Option: Participants
Option: Remission
Option: Groundbreaking
Option: Obesity
 4. What term describes the act of being separated from others?
Option: Stimulation
Option: Cognitive
Option: Therapy
Option: Antidepressants
 5. What term is used to describe something that occurs before the expected time?
Option: Fertility
Option: Ovarian
Option: Cohort
Option: Repurposing
 6. Which term means to confirm the accuracy or truth of something?
Option: Validate
Option: Challenging
Option: Participants
Option: Remission
 7. What term describes the process of adapting something for a different purpose than originally intended?
Option: Therapy
Option: Antidepressants
Option: Obesity
Option: Repurposing



8. Which term is related to processes of thought reasoning and memory?

- Option: Dementia
- Option: Isolation
- Option: Cognitive
- Option: Therapy

9. What term refers to the administration of a substance to stimulate an immune response against a specific disease?

- Option: Thalassaemia
- Option: Hemoglobin
- Option: Crispr
- Option: Vaccination

10. Which term describes something innovative or pioneering?

- Option: Groundbreaking
- Option: Thalassaemia
- Option: Haemoglobin
- Option: Crispr

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

11. Poor diet and lack of physical activity are common contributors to _____.

12. _____ is a general term for loss of memory language problem-solving and other thinking abilities that are severe enough to interfere with daily life.

13. People experiencing rapid strong or irregular heartbeats may describe this sensation as heart _____.

14. The task was extremely _____ requiring a high level of skill and concentration.

15. It is important to _____ patients closely after surgery to watch for any complications.

16. Through effective vaccination programs many diseases have been _____ in certain regions.

17. Physical and occupational _____ play a crucial role in the rehabilitation process.

18. The doctor performed an ultrasound to check on the _____ development of the



unborn child.

19. The new educational toys are designed to provide sensory _____ for infants.

20. After completing chemotherapy the patient experienced a period of _____ with no signs of cancer.

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

21. The flu virus is highly _____ and can spread rapidly in a population.
22. Scientists are exploring the use of technology to edit genetic sequences.
23. Some individuals may require _____ to manage symptoms of depression.
24. The project focused on the _____ of existing drugs for new therapeutic purposes.
25. Doctors need to closely _____ the patient's vital signs during the surgery.
26. The study is seeking healthy _____ to volunteer for the clinical trial.
27. The recent measles outbreak has highlighted the importance of childhood _____.
28. The baby's lungs were not fully developed due to _____ birth.
29. The new medical discovery was hailed as a _____ achievement in the field.
30. Caring for a loved one with _____ can be emotionally and physically challenging.

Answer

Multiple Choice: 1. Infectious 2. Haemoglobin 3. Participants 4. Stimulation 5. Fertility 6. Validate 7. Repurposing 8. Cognitive 9. Vaccination 10. Groundbreaking

Gap-Fill: 11. Obesity 12. Dementia 13. Palpitations 14. Challenging 15. Monitor 16. Eliminated 17. Therapy 18. Fetal 19. Stimulation 20. Remission

Matching sentence: 1. Infectious 2. Crispr 3. Antidepressants 4. Repurposing 5. Monitor 6. Participants 7. Vaccination 8. Premature 9. Groundbreaking 10. Dementia

CATEGORY

- 1. Health - LEVEL4



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Author

aimeeyoung99

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