



Fatherhood Significantly Changes Brain Structure, Scans Show

Description

The male brain changes after a baby is born. A new study looked at 25 fathers. The study found that the brain's structure changes quickly in the first weeks of fatherhood.

In the first three months, some parts of the male brain get smaller. Other parts become larger later. Scientists say this helps fathers learn important skills for caring for their babies. The biggest changes happen in the first six weeks after birth.

These changes are similar to those seen in mothers during pregnancy. Losing some brain volume might sound bad. However, it actually means the brain is getting ready for the new role of being a parent. The brain can change for important life stages like parenthood.

The study also showed that the part of the brain that helps with emotions connects better to other areas after childbirth. This suggests fathers become more caring. More research is needed to understand how long these changes last. Scientists want to learn more about how fatherhood affects the brain.

Vocabulary List:

1. **fatherhood** //ˈfɑðər,hʊd// (noun): the time when a man becomes a parent
2. **structure** //ˈstrʌktʃər// (noun): the way something is made or arranged
3. **volume** //ˈvɒljəm// (noun): the amount of space inside something
4. **connects** //kəˈnɛkts// (verb): forms a link or joins to something else
5. **pregnancy** //ˈprɛɡnənsi// (noun): the time when a woman carries a baby
6. **research** //rɪˈsɜːtʃ// (noun): careful study to learn new facts

Comprehension Questions

Multiple Choice

1. What did the study look at?

Option: 25 mothers

Option: 25 fathers

Option: 100 parents



Option: 50 infants

2. When do the biggest changes in the male brain occur after birth?

Option: First three months

Option: First six weeks

Option: First year

Option: First two weeks

3. What happens to some parts of the male brain during the first three months of fatherhood?

Option: They become larger

Option: They remain the same

Option: They get smaller

Option: They disappear completely

4. What is said to connect better to other areas after childbirth?

Option: The cerebrum

Option: The vestibular system

Option: The part of the brain that helps with emotions

Option: The brain stem

5. What do scientists want to understand more about?

Option: How long these changes last

Option: The role of mothers

Option: The history of fatherhood

Option: Baby development

6. What is one potential result of losing some brain volume in fathers?

Option: Improved memory

Option: Preparation for parenting

Option: Higher IQ

Option: Increased stress

True-False

7. The male brain does not change after a baby is born.

8. The study observed the brain changes in 25 fathers.



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9. Changes in the male brain during fatherhood are similar to those seen in mothers during pregnancy.
 10. The male brain gets larger immediately after childbirth.
 11. The study indicates fathers become less caring after childbirth.
 12. More research is required to understand how fatherhood affects the brain.

Gap-Fill

13. The study looked at 25 fathers and found that the brain's structure changes quickly in the first weeks of fatherhood, especially in the first _____ weeks.
14. Some parts of the male brain get smaller in the first three months, while other parts become _____ later.
15. Changes in the male brain during fatherhood are similar to those seen in mothers during _____ .
16. Losing some brain volume may sound bad, but it means the brain is getting ready for the new role of being a _____ .
17. The part of the brain that helps with emotions connects better to other areas after _____ .
18. Scientists want to learn more about how fatherhood affects the _____ .

Answer

- Multiple Choice:** 1. 25 fathers 2. First six weeks 3. They get smaller 4. The part of the brain that helps with emotions 5. How long these changes last 6. Preparation for parenting
- True-False:** 7. False 8. True 9. True 10. False 11. False 12. True
- Gap-Fill:** 13. six 14. larger 15. pregnancy 16. parent 17. childbirth 18. brain



Vocabulary quizzes

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

1. What term refers to the state of being a father?
Option: Parenthood
Option: Fatherhood
Option: Childhood
Option: Maternity
2. In which structure do light-dependent reactions of photosynthesis occur?
Option: Stroma
Option: Chloroplast
Option: Thylakoid
Option: Mitochondria
3. What is the role of NADPH in photosynthesis?
Option: Energy storage
Option: Electron donor
Option: Water splitting
Option: Carbon fixation
4. What term is used to describe a set of medical signs and symptoms that are correlated with each other?
Option: Condition
Option: Syndrome
Option: Disease
Option: Disorder
5. What is the body's response to injury or infection characterized by redness and swelling?
Option: Inflammation
Option: Allergy
Option: Infection
Option: Contusion
6. What term describes someone capable of self-sufficiency?
Option: Dependent
Option: Independent
Option: Interdependent
Option: Cooperative
7. What is the primary exercise used to strengthen the legs and core by bending the knees?



- Option: Deadlift
- Option: Bench Press
- Option: Squat
- Option: Pull-Up

8. What do you call the method of dealing with a disease or condition?

- Option: Diagnosis
- Option: Medication
- Option: Treatment
- Option: Prevention

9. What type of traits are inherited from parents to offspring?

- Option: Environmental
- Option: Physical
- Option: Genetic
- Option: Cultural

10. What is the process of making something smaller or less in amount?

- Option: Increase
- Option: Enhance
- Option: Reduce
- Option: Eliminate

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

- 11. Regular exercise can significantly improve overall _____ in individuals.
- 12. The _____ conducted on climate change has revealed alarming trends.
- 13. The sound level was so high that it exceeded safe _____.
- 14. The study assessed the _____ of the new drug in treating the disease.
- 15. Many species have _____ over millions of years to adapt to their environments.
- 16. Dust and smoke are composed of tiny _____ that can impact air quality.
- 17. Plants can _____ sunlight to convert it into energy during photosynthesis.
- 18. Trust and communication are the _____ of a strong relationship.



19. The _____ is an essential weightlifting exercise focusing on the back and legs.
20. _____ exercises, such as push-ups and squats, can be effective for strength training.

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

21. Effective treatment can lead to a better quality of life for patients.
22. Building strength is essential for athletes to enhance their performance.
23. Ongoing research is critical for advancing medical knowledge.
24. The volume of water in the reservoir fluctuates throughout the year.
25. Inflammation is the body's natural response to injury or infection.
26. The consumable products in the kitchen need to be replaced regularly.
27. Species have evolved over time to adapt to changing environments.
28. Genetic factors play a significant role in determining an individual's traits.
29. An independent individual values self-sufficiency and personal responsibility.
30. To be effective, materials must absorb sound rather than reflect it.

Answer

Multiple Choice: 1. Fatherhood 2. Thylakoid 3. Electron donor 4. Syndrome 5. Inflammation 6. Independent 7. Squat 8. Treatment 9. Genetic 10. Reduce

Gap-Fill: 11. strength 12. research 13. volume 14. effectiveness 15. evolved 16. particles 17. absorb 18. pillars 19. deadlift 20. Bodyweight

Matching sentence: 1. treatment 2. strength 3. research 4. volume 5. inflammation 6. consumable 7. evolved 8. genetic 9. independent 10. absorb

CATEGORY

- 1. Health - LEVEL1

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- 1. brain



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