



Research reveals variations in the brains of children with the disorder.

Description

A new study has revealed distinctive brain functions in children with Attention-Deficit Hyperactivity Disorder (ADHD). The National Institutes of Health study showed that children with ADHD had more wirings in their brains compared to children without the disorder. This abnormality makes it challenging for their brains to send clear signals during tasks.

This **groundbreaking** research explains the **inordinate** brain connectivity linked to ADHD symptoms. Essentially, the excessively connected brain wirings could hinder signal transmission in children with ADHD.

In the past, ADHD studies had less satisfactory samples, often less than 100 participants, and failed to identify the brain areas affected by ADHD. In contrast, this recent study used thousands of brain scans from six different data sets, offering a detailed understanding of how the ADHD brain operates, even when at rest.

The **autonomous** study by Lauren Friedman, Arizona State University Assistant Psychology Professor, affirmed that this study didn't ascertain how ADHD is diagnosed but rather unearthed specific brain signals that are **indicative** of ADHD.

The study covered over 8,000 children; about 1,700 had diagnosed ADHD. Among them, the frontal cortex (controlling attention) had increased wirings to the deeper brain structures. This **elaborate** wiring led to altered connectivity, according to the study.

More research is awaited on ADHD children's brain activities and growth patterns. Meanwhile, experts consider this study a milestone, shedding light on the peculiar brain operations in ADHD children.

Vocabulary Insights:

1. **Groundbreaking:** being innovative or pioneering.
2. **Inordinate:** Excessively large; beyond normal limits.
3. **Autonomous:** Independent or self-governing.
4. **Indicative:** Serving as a sign or indication of something.
5. **Elaborate:** Detailed and complicated in design and planning.

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Vocabulary List:

1. **Distinctive** // (adjective): Characterized by being different or having a unique quality.
2. **Wirings** // (noun): The act or process of providing electrical connections to devices.
3. **Abnormality** // (noun): Something that deviates from what is considered normal.
4. **Challenging** // (adjective): Testing one's abilities or capabilities.
5. **Samples** // (noun): A small part or quantity intended to show what the whole is like.
6. **Controlling** // (verb): Exercising authority or direction over.

Vocabulary quizzes

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

1. Which medication is commonly used to treat nerve pain?

- Option: Pregabalin
- Option: Escalation
- Option: Hygiene
- Option: Concomitant

2. What process involves making an individual immune to a particular disease?

- Option: Inequitable
- Option: Immunisation
- Option: Samples
- Option: Dependence

3. Which term describes something likely to cause disagreement or argument?



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- Option: Commemorative
Option: Contentious
Option: Consolidated
Option: Wirings
4. What term refers to a revival or increase after a period of little activity?
Option: Hygiene
Option: Resurgence
Option: Samples
Option: Inequitable
5. Which word means having a quality or feature that makes something easily recognizable?
Option: Boost
Option: Dependence
Option: Distinctive
Option: Inequitable
6. What term describes something that requires great effort and determination to deal with?
Option: Dependence
Option: Samples
Option: Challenging
Option: Pregabalin
7. Which term means to make something denser or more viscous?
Option: Consolidated
Option: Inequitable
Option: Thicken
Option: Hygiene
8. What term refers to the state of relying on or being controlled by something?
Option: Dependence
Option: Wirings
Option: Palliative Care
Option: Controlling
9. Which word means reduced in size or pulled together?
Option: Immunisation
Option: Contracted
Option: Underestimated
Option: Cavalier
10. What term means to make something physically stronger or more solid?
Option: Immunisation



- Option: Resurgence
- Option: Consolidated
- Option: Challenging

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

11. A _____ is a historical account or biography written from personal knowledge.
12. The chef's _____ attitude towards food safety led to hygiene issues in the restaurant.
13. The laboratory technician collected blood _____ from the patients for analysis.
14. Regular exercise can provide a natural _____ to your immune system.
15. Proper _____ practices are essential in preventing the spread of infections.
16. The distribution of resources was deemed completely _____ by the committee.
17. The electrician checked the _____ in the building to identify the faulty connection.
18. The conflict led to an _____ of violence in the region.
19. The politician's speech resonated with the concerns of the _____.
20. The doctor noticed an _____ in the test results that required further investigation.

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

21. Some people develop a psychological on substances like alcohol or drugs.
22. The opponent's skills were severely leading to a surprising defeat.
23. The misuse of harmful can lead to serious health consequences.
24. The government implemented strict measures aimed at the spread of the disease.
25. The decision-making process is influenced by the activities of the in the brain.
26. Patients with terminal illnesses may benefit from the support provided by services.
27. The city erected a statue as a tribute to the fallen war heroes.



28. The laboratory requires blood and tissue for diagnostic testing.

29. The electrician carefully inspected the building's electrical for any faults.

30. Adding flour to the sauce will help to it for a richer texture.

Answer

Multiple Choice: 1. Pregabalin 2. Immunisation 3. Contentious 4. Resurgence 5. Distinctive 6. Challenging
7. Thicken 8. Dependence 9. Contracted 10. Consolidated

Gap-Fill: 11. Memoir 12. Cavalier 13. Samples 14. Boost 15. Hygiene 16. Inequitable 17. Wirings 18.
Escalation 19. Populace 20. Abnormality

Matching sentence: 1. Dependence 2. Underestimated 3. Substances 4. Controlling 5. Prefrontal cortex
6. Palliative Care 7. Commemorative 8. Samples 9. Wirings 10. Thicken

CATEGORY

1. Health - LEVEL4

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