

Early Warning: Belly Fat Linked to Alzheimer's Risk

Description

A study found that having more belly fat in your 40s or 50s can be linked to memory problems later on. Researchers from Washington University in St. Louis did the study and shared their results at a conference.

The study looked at different types of body fat and how they affect the brain. They found that having belly fat around your organs, called visceral fat, can be connected to early signs of memory issues like Alzheimer's.

Another type of fat, called subcutaneous fat, was not linked to memory problems. This means that not all body fat is the same when it comes to brain health.

The study used special machines like MRI to measure the different fat levels in the body. The researchers hope that by understanding more about how certain fats affect the brain, we can find ways to prevent memory problems in the future.

Until we know more, staying active and eating well are still the best ways to keep our brains healthy.

Vocabulary List:

- 1. Visceral /'vɪs.ər.əl/ (adjective): Relating to the internal organs.
- 2. **Subcutaneous** /,snb.kju:'teɪ.ni.əs/ (adjective): Existing or occurring under the skin.
- 3. **Linked** /linkt/ (verb): Connected or related to something.
- 4. **Memory** /'mɛm.ə.ri/ (noun): The faculty by which the mind stores and remembers information.
- 5. **Researchers** /'riːˌsɜːr.tʃərz/ (noun): Individuals who conduct systematic investigations into a subject.
- 6. Active /'æk.tɪv/ (adjective): Engaging or participating in activities; not inactive.

Comprehension Questions

Multiple Choice

1. What type of fat was found to be linked to memory problems in the study?

Option: Subcutaneous fat

Option: Visceral fat



Option: Brown fat Option: Saturated fat

2. Which university did the researchers conducting the study come from?

Option: Harvard University Option: Stanford University

Option: Washington University in St. Louis

Option: Yale University

3. What type of imaging machines were used to measure fat levels in the body?

Option: X-ray machines

Option: Ultrasound machines

Option: CT scanners Option: MRI machines

4. What age range was mentioned in relation to the impact of belly fat on memory problems? NEWS.COM

Option: 20s Option: 30s

Option: 40s or 50s Option: 60s or older

5. Which health issue was specifically mentioned as a potential consequence of having visceral fat?

Option: High cholesterol

Option: Diabetes

Option: Heart disease Option: Alzheimer's

6. What did the researchers hope to achieve by understanding the connection between fat types and brain health?

Option: Prevent cancer

Option: Prevent memory problems

Option: Lose weight

Option: Improve muscle tone

True-False

7. Subcutaneous fat was found to be associated with memory problems in the study.



- 8. MRI machines were not used in the study to measure fat levels in the body.
- 9. The study results were not shared at a conference.
- 10. The researchers concluded that all body fat types affect the brain similarly.
- 11. Staying active and eating well were mentioned as ways to keep our brains healthy.
- 12. The study focused solely on the impact of belly fat on memory problems.

Gap-Fill

13. The study found a connection between visceral	fat and early signs of memory issues like Alzheimer's
later in life, while fat was	not linked to memory problems.
14. The researchers used	to measure the different fat levels in the body.
15. Understanding how certain fats affect the brain	could help in finding ways to prevent memory problems
16. The study highlighted the importance of staying	g active and to maintain brain
health.	
17. The study conducted by researchers from Wash	ington University in St. Louis emphasized the impact of
belly fat on memory problems in	or 50s.
18. The researchers hope that by understanding mo	ore about the effects of certain fats on the brain,
strategies can be developed to prevent	in the future.

Answer

Multiple Choice: 1. Visceral fat 2. Washington University in St. Louis 3. MRI machines 4. 40s or 50s

5. Alzheimer's 6. Prevent memory problems

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

Gap-Fill: 13. subcutaneous 14. MRI machines 15. in the future 16. eating well 17. 40s 18. memory problems



Vocabulary quizzes

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

1. What drives progress in various fields and industries?

Option: Dormancy
Option: Advancements
Option: Technology
Option: Ancestors

2. Who studies the properties and interactions of matter and energy?

Option: Memory
Option: Researchers
Option: Physicists
Option: Particles

3. Which disease affects the central nervous system and can cause tremors and difficulty with movement?

Option: Resist
Option: Dementia
Option: Parkinson
Option: Inflammation

4. What are the elementary particles that combine to form protons and neutrons?

Option: Gluons Option: Quarks Option: Neutrons Option: Particles

5. What branch of physics deals with the behavior of very small particles like photons and electrons?

Option: Visceral
Option: Active
Option: Quantum
Option: Subcutaneous

6. Which B vitamin is essential for converting food into energy?



Option: Toxins Option: Biotin Option: Riboflavin Option: Memory
7. In what way do different species live together without causing harm to each other? Option: Resilient Option: Survive Option: Resist
Option: Coexist
8. Who conducts systematic investigations to establish facts or reach new conclusions? Option: Memory Option: Active Option: Quantum Option: Researchers
 9. What term is used to describe finding or learning something previously unknown or unseen? Option: Similar Option: Discovery Option: Planned Option: Ancestors
10. What is the ability of an organism to adjust to its environment for survival? Option: Adapt Option: Particles Option: Gluons Option: Quarks
Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)
11. In biology organisms that share characteristics are often classified together.
12. Alzheimer's disease is associated with a decline in cognitive function and loss
13. Genetic traits are passed down from our and can influence our physical
appearance.
14. Organisms with advantageous traits are more likely to and reproduce in a



given environment.	
15. Regular physical exercise helps to keep the body and healthy.	
16. Exposure to environmental pollutants and harmful substances can lead to the accumulation of	
in the body.	
17. Chronic in the body can contribute to the development of various diseases.	
18. Older adults may experience cognitive decline and memory loss as a result of	
19. The construction of a new city is a complex project that requires careful	
and execution.	
20. Antibiotics are used to help the bodybacterial infections.	
Matching Sentences (Match each definition to the correct word from the vocabulary list.)	
21. Subatomic particles found in the nucleus of an atom along with protons.	
22. Fundamental units of matter that make up the universe and interact through forces.	
23. Quantum particles that mediate the strong force which holds quarks together.	
24. The ability to recover from difficulties and maintain stability and adaptability.	
25. Located or placed just beneath the skin such as a subcutaneous injection.	
26. Connect or associate one thing with another due to a relationship or connection.	
27. A B vitamin that plays a key role in metabolism and energy production.	
28. A state of minimal activity or reduced metabolic rate often to survive harsh conditions.	
29. Technological and scientific progress leading to new innovations and discoveries.	
30. Past generations from which individuals or species are descended.	



Answer

Multiple Choice: 1. Advancements 2. Physicists 3. Parkinson 4. Quarks 5. Quantum 6. Riboflavin 7. Coexist 8. Researchers 9. Discovery 10. Adapt

Gap-Fill: 11. Similar 12. Memory 13. Ancestors 14. Survive 15. Active 16. Toxins 17. Inflammation 18. Dementia 19. Planned 20. Resist

Matching sentence: 1. Neutrons 2. Particles 3. Gluons 4. Resilient 5. Subcutaneous 6. Linked 7. Biotin 8. Dormancy 9. Advancements 10. Ancestors

CATEGORY

1. Health - LEVEL2

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