First in-human brain implant by Neuralink faces an obstacle

Description

Neuralink, a company founded by Elon Musk, recently made headlines for implanting a device in a 29-year-old patient as part of a study to test its safety. The surgery was successful, but in the weeks following the procedure, there were complications. A number of threads retracted from the patient's brain, limiting the device's effectiveness.

Neuralink has since made adjustments to improve the device's performance, such as modifying the recording algorithm and enhancing the user interface. While there were concerns about removing the implant, it was ultimately deemed unnecessary as it did not pose a direct risk to the patient's safety.

Despite these challenges, the patient, named Noland Arbaugh, continues to use the device for several hours each day and has expressed that it has helped him "reconnect with the world."

While Neuralink is not the only company working on brain-computer interface technology, they have a long road of testing ahead before seeking approval from the U.S. Food and Drug Administration for commercial use.

Overall, the progress of Neuralink's device highlights both the promise and challenges of this cutting-edge technology in the medical field.

Vocabulary List:

1. **Implanting** // (verb): The process of surgically inserting a device or material into the body.
2. **Complications** // (noun): Unforeseen issues or problems that arise during or after a procedure.
3. **Adjustments** // (noun): Changes made to improve or correct something.
4. **Effectiveness** // (noun): The degree to which something is successful in producing the desired result.
5. **Interface** // (noun): The point of interaction or communication between components in a system.
6. **Reconnect** // (verb): To re-establish a connectionespecially with oneselfothersor the world.

Vocabulary quizzes

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

1. What word means something that serves as a substitute or option?

   Option: Inconvenience

Option: Alternative

Option: Complying

Option: Capsule

2. Which term refers to a device used to control the flow of a fluid?

Option: Astronaut

Option: Valve

Option: Countdown

Option: Pivotal

3. What word describes unforeseen issues that arise and make something more complex?

Option: Effectiveness

Option: Complications

Option: Interface

Option: Reconnect

4. Which term means something characterized by luxury and opulence?

Option: Adjustments

Option: Luxurious

Option: Mission

Option: Risks

5. What term is used to describe the study of the motion of air and other gases?

Option: Retrieve

Option: Aerodynamics

Option: Turbocharged

Option: Packs a punch

6. Which word means something that is restricted to a select group or class?

Option: Soured

Option: Turbocharged

Option: Exclusive

Option: Marred

7. What is the term for a strong negative reaction to something?

Option: Backlash

Option: Staggering

Option: Reconnect

Option: Cost-effective

8. Which word means improved or updated something?

Option: Revamped

Option: Astronaut

Option: Pivotal
Option: Marred

9. What term refers to the state of being intricate or complicated?

Option: Retrieve
Option: Complexity
Option: Sample
Option: Mission

10. What word describes something that provides the best value for the money spent?

Option: Risks
Option: Cost-effective
Option: Inconvenience
Option: Adjustments

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

11. The company reported a _____ loss in revenue for the quarter.

12. The book left a lasting _____ on the reader.

13. The space agency's _____ to Mars was a success.

14. The team made several _____ to the project timeline.

15. The new software has an intuitive user _____.

16. Please _____ the file from the backup drive.

17. The car's engine was _____ for improved performance.

18. The scientist collected a _____ of water for testing.

19. Investing in stocks comes with certain financial _____.

20. After years apart they decided to _____ and rekindle their friendship.

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

21. The success of this project is to the company's future.

22. Their once close relationship has now due to recent events.
23. As the clock ticked the astronauts began the final to the rocket launch.
24. The procedure involves a small device under the skin.
25. The success of the campaign will be measured by its in reaching the target audience.
26. Please go to the database and the relevant information.
27. The otherwise perfect evening was by an unexpected argument.
28. The medication is in the form of a gel for easy consumption.
29. Investors must consider the potential before committing to the project.
30. The construction work will cause some to our daily routines.

Answer

Multiple Choice: 1. Alternative 2. Valve 3. Complications 4. Luxurious 5. Aerodynamics 6. Exclusive 7. Backlash 8. Revamped 9. Complexity 10. Cost-effective

Gap-Fill: 11. staggering 12. imprint 13. mission 14. adjustments 15. interface 16. retrieve 17. turbocharged 18. sample 19. risks 20. reconnect

Matching sentence: 1. Pivotal 2. Soured 3. Countdown 4. Implanting 5. Effectiveness 6. Retrieve 7. Marred 8. Capsule 9. Risks 10. Inconvenience

CATEGORY

1. Sci/Tech - LEVEL3

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