



Using Fluorescent Dye to Detect Hidden Prostate Cancer Cells

Description

A fluorescent dye developed by UK scientists at the University of Oxford could potentially revolutionize prostate cancer surgery. The dye attaches to a protein only found in cancer cells, helping surgeons identify and remove cancerous tissue more effectively. In a small trial, the dye enabled surgeons to detect cancer cells that would have been missed by conventional methods. A larger trial funded by Cancer Research UK is planned to further evaluate the effectiveness of this approach.

Lead researcher Prof Freddie Hamdy described the results as "promising," noting that the dye allows for the visualization of fine details of prostate cancer during surgery. This real-time imaging could lead to more precise removal of cancer cells, reducing the risk of recurrence. Patients like David Butler, who participated in the trial, have benefited from this innovative technique, with one patient being cancer-free post-surgery.

Prostate cancer is the most common cancer in UK men. Dr. Iain Foulkes of CRUK expressed optimism about the potential impact of this research on improving cancer treatment. If successful, the dye could be adapted for use in surgery for other types of cancer.

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Vocabulary List:

1. **Fluorescent** // (adjective): Emitting light when exposed to electromagnetic radiation.
2. **Revolutionize** // (verb): Bring about a complete or dramatic change in something.
3. **Prostate** // (noun): A gland surrounding the neck of the bladder in male mammals.
4. **Surgeons** // (noun): Medical specialists who perform surgery.
5. **Conventional** // (adjective): Based on or in accordance with what is generally done or believed.
6. **Recurrence** // (noun): The reappearance of a disease or symptom after a period of remission.

Vocabulary quizzes

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

1. What is the purpose of medications that alleviate pain?
Option: To cause pain
Option: To increase pain
Option: To reduce pain
Option: To ignore pain
2. Which of the following can be caused by bacteria or viruses?
Option: Cancer
Option: Infections
Option: Allergies
Option: Heart disease
3. What type of exercise focuses on building muscle mass and improving strength?
Option: Yoga
Option: Pilates
Option: Strength training
Option: Zumba
4. Which medication is commonly used to treat type 2 diabetes?
Option: Aspirin
Option: Empagliflozin
Option: Vitamin C
Option: Benadryl
5. Which condition involves inflammation and stiffness of the joints?
Option: Migraine



- Option: Arthritis
- Option: Asthma
- Option: Eczema

6. Which medical specialty involves the management of obesity?

- Option: Pediatrics
- Option: Otolaryngology
- Option: Bariatric
- Option: Podiatry

7. What activity involves riding a bicycle for exercise or transportation?

- Option: Swimming
- Option: Cycling
- Option: Skateboarding
- Option: Running

8. After achieving a goal what is necessary to do to ensure it continues?

- Option: Stop
- Option: Revert
- Option: Maintain
- Option: Forget

9. Which type of light emits visible light when exposed to the ultraviolet spectrum?

- Option: Incandescent
- Option: Fluorescent
- Option: LED
- Option: Halogen

10. Which medication is commonly prescribed to manage type 2 diabetes?

- Option: Ibuprofen
- Option: Metformin
- Option: Penicillin
- Option: Antihistamine

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

11. _____ of the infection is common if the antibiotic course is not completed.
12. The invention of the internet has _____ communication and information sharing.
13. After months of rigorous training the athlete finally _____ his strength and speed.



14. The new findings in the research have a _____ impact on the field of medicine.
15. Before starting any new medication it is advisable to _____ with a healthcare professional.
16. A well-rounded _____ can help in managing chronic health conditions effectively.
17. Despite technological advances many still prefer _____ methods of treatment.
18. To stay healthy and fit it is important to _____ a balanced diet and regular exercise routine.
19. _____ is a degenerative joint disease that commonly affects older adults.
20. _____ is a medication that belongs to a class of drugs known as SGLT2 inhibitors.

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

21. Proper hydration is for maintaining overall health and well-being.
22. is an eating pattern that cycles between periods of fasting and eating.
23. It is wise to a specialist before making any major decisions regarding your health.
24. The success of a project is often determined by the achieved.
25. Regular is essential for maintaining a healthy body and mind.
26. In some cases may be the only option to address certain medical conditions.
27. plays a crucial role in advancing scientific knowledge and developing new treatments.
28. Highly skilled perform intricate procedures to help patients overcome health challenges.
29. The idea that vaccines cause autism is completely .
30. are recommended for individuals struggling with severe obesity.



Answer

Multiple Choice: 1. To reduce pain 2. Infections 3. Strength training 4. Empagliflozin 5. Arthritis 6. Bariatric 7. Cycling 8. Maintain 9. Fluorescent 10. Metformin

Gap-Fill: 11. Recurrence 12. Revolutionized 13. Regained 14. Significant 15. Consult 16. Lifestyle intervention 17. Conventional 18. Maintain 19. Osteoarthritis 20. Empagliflozin

Matching sentence: 1. Crucial 2. Intermittent fasting 3. Consult 4. Outcomes 5. Physical activity 6. Surgery 7. Research 8. Surgeons 9. Misconceived 10. Bariatric interventions

CATEGORY

1. Health - LEVEL3

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