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# Surprising Increase in Non-Smokers with Lung Cancer: The Reasons

## Description

The number of smokers in the world is going down, but lung cancer still causes almost 2 million deaths yearly. New research shows a rise in lung cancer cases among people who never smoked. Pollution, mainly in east Asia, is believed to be a significant factor.

A type of lung cancer called adenocarcinoma is becoming more common worldwide, especially in non-smokers. This cancer type mostly affects glands and is linked to air pollution.

The research team suggests that efforts to reduce smoking should continue, and measures should be taken to address the impact of air pollution on lung cancer cases. The study highlights the need to gather more data to understand and combat lung cancer better.

The findings provide valuable information for developing strategies to control tobacco use and air pollution, especially in areas with high rates of lung cancer. The research was published in The Lancet Respiratory Medicine.

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## Vocabulary List:

1. **Adenocarcinoma** /,æd.ə.nɒs.kɑ:r.sɪ'noʊ.mə/ (noun): A type of cancer that originates in glandular tissue.
2. **Pollution** /pə'lu:ʃən/ (noun): The presence or introduction of harmful substances into the environment.
3. **Significant** /sɪg'nɪf.ɪ.kənt/ (adjective): Important; having a particular meaning.
4. **Tobacco** /tə'bækəʊ/ (noun): The plant that is cultivated for its leaves which are used in products like cigarettes.
5. **Strategies** /'stræt.ə.dʒɪz/ (noun): Plans of action designed to achieve a particular goal.
6. **Data** /'deɪtə/ (noun): Facts and statistics collected for reference or analysis.

## Comprehension Questions

### Multiple Choice

1. What is the estimated number of deaths caused by lung cancer yearly?

- Option: 1 million
- Option: 2 million
- Option: 3 million



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Option: 4 million

2. Which region is believed to have a significant impact on pollution-related lung cancer cases?

Option: Europe

Option: North America

Option: East Asia

Option: Africa

3. Which type of lung cancer is mentioned as becoming more common, especially in non-smokers?

Option: Squamous cell carcinoma

Option: Adenocarcinoma

Option: Small cell lung cancer

Option: Large cell lung cancer

4. What main factor is adenocarcinoma linked to according to the text?

Option: Genetics

Option: Diet

Option: Air pollution

Option: Physical inactivity

5. Where was the research on lung cancer published?

Option: New England Journal of Medicine

Option: The Lancet Oncology

Option: The Lancet Respiratory Medicine

Option: Journal of the American Medical Association

6. What action does the research team suggest regarding efforts to reduce smoking?

Option: Stop all anti-smoking campaigns

Option: Continue efforts to reduce smoking

Option: Encourage smoking in designated areas

Option: Ignore smoking as a risk factor

### True-False

7. The number of smokers in the world is increasing.

8. Lung cancer cases among never smokers are decreasing.



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9. Adenocarcinoma affects glands and is related to air pollution.
  10. The study mentioned in the text emphasizes the need for more data on lung cancer.
  11. Efforts should not be made to address the impact of air pollution on lung cancer cases.
  12. The findings of the research are not relevant for developing strategies to control tobacco use.

### Gap-Fill

13. Lung cancer still causes almost \_\_\_\_\_ deaths yearly.
14. The rise in lung cancer cases among people who never smoked is attributed to \_\_\_\_\_.
15. The team suggests that measures should be taken to address the impact of air pollution on lung cancer cases and efforts to reduce smoking should \_\_\_\_\_.
16. Adenocarcinoma is mentioned as a type of lung cancer that mostly affects \_\_\_\_\_.
17. The need to gather more data is highlighted to better understand and combat \_\_\_\_\_.
18. The research provides valuable information for developing strategies to control \_\_\_\_\_ use and air pollution.

### Answer

**Multiple Choice:** 1. 2 million 2. East Asia 3. Adenocarcinoma 4. Air pollution 5. The Lancet Respiratory Medicine 6. Continue efforts to reduce smoking

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

**Gap-Fill:** 13. 2 million 14. pollution 15. continue 16. glands 17. lung cancer 18. tobacco

### Vocabulary quizzes



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

1. Which disease is characterized by memory loss and cognitive decline?  
Option: Alzheimer's  
Option: Oxygen  
Option: Activity  
Option: Evolution
  
2. What type of planet orbits a star outside of our solar system?  
Option: Research  
Option: Exoplanet  
Option: Astronomers  
Option: Oxygen
  
3. What force keeps planets in orbit around stars?  
Option: Toxins  
Option: Gravitational  
Option: Pollution  
Option: Poisonous
  
4. What process causes fruits to become mature and ready to eat?  
Option: Ripens  
Option: Chemicals  
Option: Toxins  
Option: Astronomers
  
5. Which type of cancer originates in glandular tissue?  
Option: Evolution  
Option: Adenocarcinoma  
Option: Tobacco  
Option: Activity
  
6. Which term describes something with large mass or size?  
Option: Domestication  
Option: Chemicals  
Option: Massive  
Option: Evolved
  
7. What is the process of taking in oxygen and expelling carbon dioxide called?  
Option: Breathing  
Option: Research  
Option: Promising



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Option: Observations

8. What is collected and analyzed to gain information?

Option: Identifying

Option: Data

Option: Strategies

Option: Ripens

9. What process describes the gradual development of something over time?

Option: Evolution

Option: Microlensing

Option: Significant

Option: Activity

10. Which substances are harmful and can cause adverse effects when present in the body?

Option: Toxins

Option: Intermediate-mass

Option: Research

Option: Breathing

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

11. Scientists conduct \_\_\_\_\_ to discover new findings.

12. The new treatment shows great \_\_\_\_\_ in curing the disease.

13. The \_\_\_\_\_ of animals led to changes in their behavior and genetics.

14. Some \_\_\_\_\_ in the environment can be harmful to human health.

15. \_\_\_\_\_ study celestial objects and phenomena in the universe.

16. Efforts are being made to reduce \_\_\_\_\_ levels in major cities.

17. The new discovery will have a \_\_\_\_\_ impact on the field of medicine.

18. Businesses need effective \_\_\_\_\_ to achieve success in the market.

19. Scientists make detailed \_\_\_\_\_ to understand natural phenomena.

20. The \_\_\_\_\_ force between planets keeps them in their orbits.



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

21. Species have over time to adapt to their environments.
22. is a technique used by astronomers to discover distant planets.
23. key characteristics is important in classifying different species.
24. Astronomers use various methods to detect new beyond our solar system.
25. Regular physical is important for maintaining good health.
26. Some plants produce substances to deter herbivores from eating them.
27. The new drug has shown results in early trials.
28. Living organisms require for respiration and survival.
29. Long-term use of products can lead to serious health issues.
30. Stars with have properties between low-mass and high-mass stars.

**Answer**

**Multiple Choice:** 1. Alzheimer’s 2. Exoplanet 3. Gravitational 4. Ripens 5. Adenocarcinoma 6. Massive 7. Breathing 8. Data 9. Evolution 10. Toxins

**Gap-Fill:** 11. Research 12. Promise 13. Domestication 14. Chemicals 15. Astronomers 16. Pollution 17. Significant 18. Strategies 19. Observations 20. Gravitational

**Matching sentence:** 1. Evolved 2. Microlensing 3. Identifying 4. Exoplanet 5. Activity 6. Poisonous 7. Promising 8. Oxygen 9. Tobacco 10. Intermediate-mass

**CATEGORY**

- 1. Health - LEVEL2

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