



## CT Scans Linked to 100,000 New US Cancers

### Description

More Americans are getting CT scans nowadays. Some experts worry that the radiation from these scans might increase the risk of cancer. They say that even though the chances of getting cancer from a CT scan are very low, the number of scans being done is going up. Researchers think that unnecessary scans might expose people to extra radiation. They estimate that CT scans done in 2023 might cause 103,000 new cancer cases in the US.

Scientists are still debating whether CT scans can really cause cancer. Some studies on radiation from atomic bombs and nuclear accidents suggest a possible link. But more research is needed to be sure. Children and teens may have a higher risk of cancer from CT scans than adults. It's important to only do CT scans when necessary to avoid unnecessary exposure to radiation.

Experts say that the benefits of CT scans usually outweigh the risks. They can help detect hidden health issues early. But it's essential to be cautious and limit unnecessary scans to protect against long-term risks.

### Vocabulary List:

1. **Radiation** /ˌreɪ.dɪˈeɪ.ʃən/ (noun): Energy emitted as rays or particles which can be harmful.
2. **Estimate** /ˈɛs.tɪ.meɪt/ (verb): To roughly calculate or judge the value number or quantity.
3. **Exposure** /ɪkˈspəʊ.ʒər/ (noun): The state of being in contact with something harmful.
4. **Necessary** /ˈnɛs.ə.sər.i/ (adjective): Required to be done achieved or present; needed.
5. **Detect** /dɪˈtɛkt/ (verb): To discover or identify the existence of something.
6. **Cautious** /ˈkɔː.ʃəs/ (adjective): Careful to avoid potential problems or dangers.

## Comprehension Questions

### Multiple Choice

1. What are some concerns raised by experts regarding CT scans and cancer risk?

Option: Increased radiation exposure  
Option: Higher number of scans being done  
Option: Possible link to new cancer cases  
Option: All of the above



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2. According to researchers, what might unnecessary CT scans expose people to?
- Option: Extra radiation
  - Option: Chemical toxins
  - Option: Mental health risks
  - Option: None of the above
3. Who may have a higher risk of cancer from CT scans?
- Option: Children
  - Option: Teens
  - Option: Both children and teens
  - Option: Adults
4. What do experts suggest about the benefits and risks of CT scans?
- Option: Benefits usually outweigh risks
  - Option: Risks usually outweigh benefits
  - Option: Benefits and risks are equal
  - Option: None of the above
5. What do some studies on radiation from atomic bombs and accidents suggest about CT scans and cancer?
- Option: Possible link
  - Option: No association
  - Option: Definite connection
  - Option: Random correlation
6. What is essential to avoid unnecessary exposure to radiation from CT scans?
- Option: Regular exercise
  - Option: Limiting unnecessary scans
  - Option: Eating healthy
  - Option: No preventive measures needed

**True-False**

7. Scientists have conclusively proven that CT scans can cause cancer.
8. The benefits of CT scans generally outweigh the risks according to experts.
9. Researchers estimate that CT scans done in 2023 might lead to 103,000 new cancer cases in the US.



10. Experts recommend that CT scans should be done only when deemed necessary to prevent excessive radiation exposure.

11. Children and teens are at a lower risk of cancer from CT scans compared to adults.

12. Unnecessary CT scans may expose individuals to additional radiation.

### Gap-Fill

13. Experts estimate that CT scans done in 2023 might cause \_\_\_\_\_ new cancer cases in the US.

14. Children and teens may have a higher risk of cancer from CT scans than \_\_\_\_\_.

15. It is important to only do CT scans when \_\_\_\_\_.

16. Experts recommend being cautious and limiting unnecessary scans to protect against long-term \_\_\_\_\_.

17. Children and teens may have a \_\_\_\_\_ risk of cancer from CT scans.

18. Unnecessary CT scans might expose people to extra \_\_\_\_\_.

### Answer

**Multiple Choice:** 1. All of the above 2. Extra radiation 3. Both children and teens 4. Benefits usually outweigh risks 5. Possible link 6. Limiting unnecessary scans

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

**Gap-Fill:** 13. 103,000 14. adults 15. necessary 16. risks 17. higher 18. radiation

### Vocabulary quizzes

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

1. What can cause mutations in DNA and lead to cancer?

Option: Radiation



- Option: Debris
- Option: Satellites
- Option: Ecosystems

2. What can be used to communicate instantly across the globe?

- Option: Strokes
- Option: Technology
- Option: Promotion
- Option: Habitat

3. Where is biodiversity essential for maintaining balance?

- Option: Production
- Option: Ecosystems
- Option: Risks
- Option: Unsafe

4. What leads to habitat destruction and pollution?

- Option: Significant
- Option: Urbanization
- Option: Risks
- Option: Orbits

5. What can render satellites unsafe for operation?

- Option: Radiation
- Option: Debris
- Option: Collisions
- Option: Promising

6. In what setting are hormonal imbalances often diagnosed and treated?

- Option: Clinical
- Option: Reaction
- Option: Exposure
- Option: Analyzing

7. Why is it necessary to be able to detect radiation exposure?

- Option: Reaction
- Option: Detection
- Option: Orbits
- Option: Biodiversity

8. What kind of technology development offers new solutions?

- Option: Promising
- Option: Eager



Option: Analyzing

Option: Risks

9. Why is it important to analyze the effects of certain exposures on disabilities?

Option: Disabilities

Option: Stroke

Option: Instantly

Option: Habitat

10. What could happen to species due to habitat loss and urbanization?

Option: Pollution

Option: Extinct

Option: Biodiversity

Option: Technology

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

11. When individuals are \_\_\_\_\_ to radiation it can have harmful effects on their health.

12. Proper monitoring of radiation levels is \_\_\_\_\_ for ensuring safety in nuclear facilities.

13. \_\_\_\_\_ data from clinical studies helps in understanding the impact of certain factors on health.

14. Advancements in technology allow us to communicate \_\_\_\_\_ with anyone around the world.

15. Assessing the potential \_\_\_\_\_ associated with a certain activity is crucial for decision-making.

16. Space missions have to consider the risks of collisions with \_\_\_\_\_ in orbit.

17. Satellites are placed in specific \_\_\_\_\_ around the Earth to perform their functions.

18. Managing waste and pollution from industrial \_\_\_\_\_ is essential for environmental protection.

19. Certain medical conditions are treated with \_\_\_\_\_ therapy to restore balance in the



body.

20. Understanding the body's \_\_\_\_\_ to different stimuli is crucial in medical research.

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

21. A stroke can result from a disruption of blood flow to the brain leading to potential brain damage.
22. Urbanization often results in increased pollution levels impacting the quality of air and water.
23. Debris orbiting Earth poses a significant risk to satellites in operation potentially causing collisions.
24. Habitat destruction contributes to the decline in biodiversity affecting various species and ecosystems.
25. Exposure to certain chemicals or substances can render a workplace unsafe for employees requiring safety measures.
26. In medical emergencies a quick and appropriate reaction to the situation can significantly impact the outcome.
27. The destruction of natural habitats due to human activities threatens many species with extinction.
28. A significant increase in temperature can have far-reaching effects on polar ice caps and global weather patterns.
29. Scientists and researchers are eager to explore new technologies to address pressing social and environmental issues.
30. Efficient communication is essential in emergency response situations to coordinate actions effectively.

## Answer

**Multiple Choice:** 1. Radiation 2. Technology 3. Ecosystems 4. Urbanization 5. Collisions 6. Clinical 7. Detection 8. Promising 9. Disabilities 10. Extinct

**Gap-Fill:** 11. Exposed 12. Necessary 13. Analyzing 14. Instantly 15. Risks 16. Debris 17. Orbits 18. Production 19. Hormonal 20. Reaction

**Matching sentence:** 1. Stroke 2. Pollution 3. Satellites 4. Biodiversity 5. Unsafe 6. Reaction 7. Habitat 8. Significant 9. Eager 10. Communication



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## CATEGORY

1. Health - LEVEL2

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2025/04/15

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