

# EFFECT OF RADIATION ON ORGANS

## RADIATION EFFECTS

Measurements in millisieverts (mSv). Exposure is cumulative.

- Potentially fatal radiation sickness. Much higher risk of cancer later in life.**
  - 10,000 mSv:** Fatal within days.
  - 5,000 mSv:** Would kill half of those exposed within one month.
  - 2,000 mSv:** Acute radiation sickness.
- No immediate symptoms. Increased risk of serious illness later in life.**
  - 1,000 mSv:** 5% higher chance of cancer.
  - 400 mSv:** Highest hourly radiation recorded at Fukushima. Four hour exposure would cause radiation sickness.
  - 100 mSv:** Level at which higher risk of cancer is first noticeable
- No symptoms. No detectable increased risk of cancer.**
  - 20 mSv:** Yearly limit for nuclear workers.
  - 10 mSv:** Average dose from a full body CT scan
  - 9 mSv:** Yearly dose for airline crews.
  - 3 mSv:** Single mammogram
  - 2 mSv:** Average yearly background radiation dose in UK
  - 0.1 mSv:** Single chest x-ray



**EYES** High doses can trigger cataracts months later.

**THYROID** Hormone glands vulnerable to cancer. Radioactive iodine builds up in thyroid. Children most at risk.

**LUNGS** Vulnerable to DNA damage when radioactive material is breathed in.

**STOMACH** Vulnerable if radioactive material is swallowed.

**REPRODUCTIVE ORGANS** High doses can cause sterility.

**SKIN** High doses cause redness and burning.

**BONE MARROW** Produces red and white blood cells. Radiation can lead to leukaemia and other immune system diseases.

# Biological Radiation Effects

**Raffaella Di Napoli**



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## **Table of Contents Biological Radiation Effects**

1. Understanding the eBook Biological Radiation Effects
  - The Rise of Digital Reading Biological Radiation Effects
  - Advantages of eBooks Over Traditional Books
2. Identifying Biological Radiation Effects
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Biological Radiation Effects
  - User-Friendly Interface
4. Exploring eBook Recommendations from Biological Radiation Effects
  - Personalized Recommendations
  - Biological Radiation Effects User Reviews and Ratings
  - Biological Radiation Effects and Bestseller Lists
5. Accessing Biological Radiation Effects Free and Paid eBooks

- Biological Radiation Effects Public Domain eBooks
  - Biological Radiation Effects eBook Subscription Services
  - Biological Radiation Effects Budget-Friendly Options
6. Navigating Biological Radiation Effects eBook Formats
    - ePub, PDF, MOBI, and More
    - Biological Radiation Effects Compatibility with Devices
    - Biological Radiation Effects Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Biological Radiation Effects
    - Highlighting and Note-Taking Biological Radiation Effects
    - Interactive Elements Biological Radiation Effects
  8. Staying Engaged with Biological Radiation Effects
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Biological Radiation Effects
  9. Balancing eBooks and Physical Books Biological Radiation Effects
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Biological Radiation Effects
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Biological Radiation Effects
    - Setting Reading Goals Biological Radiation Effects
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Biological Radiation Effects
    - Fact-Checking eBook Content of Biological Radiation Effects
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- 
- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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