

# 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

**CH Cherryholmes**



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