

Background radiation

SOURCES OF BACKGROUND RADIATION

Background radiation is the radiation that is around us all the time at a safe level. It is measured in becquerels or counts per minute. This includes alpha, beta and gamma radiation. Most background radiation comes from radon gas. Other sources include cosmic rays, food and drink, buildings and artificial sources (medical, nuclear power).

Background radiation is the amount of ionising radiation from natural and artificial sources. Background radiation is broken into two main groups; man-made and natural. One of the largest contributors to the UK's background radiation comes from radon gas.

Radon is a gas that occurs naturally. Granite can contain uranium. Over time, uranium decays into radium which decays to radon. Radon moves through the rock to the surface. The concentration of gas released from these areas is low and is heavily monitored. Radon gas build up is one of the reasons why basements and anywhere underground are heavy ventilated.





Artificial sources account for about 15 per cent of the average background radiation dose. Nearly all artificial background radiation comes from medical procedures such as receiving x-rays for x-ray photographs. Nuclear weapons testing and nuclear accidents also contribute to the overall background radiation of the world. Weapons testing has mostly stopped now but does still occasionally occur. Nuclear accidents still occur although they are getting rarer.



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