

Health Effects of RADIATION

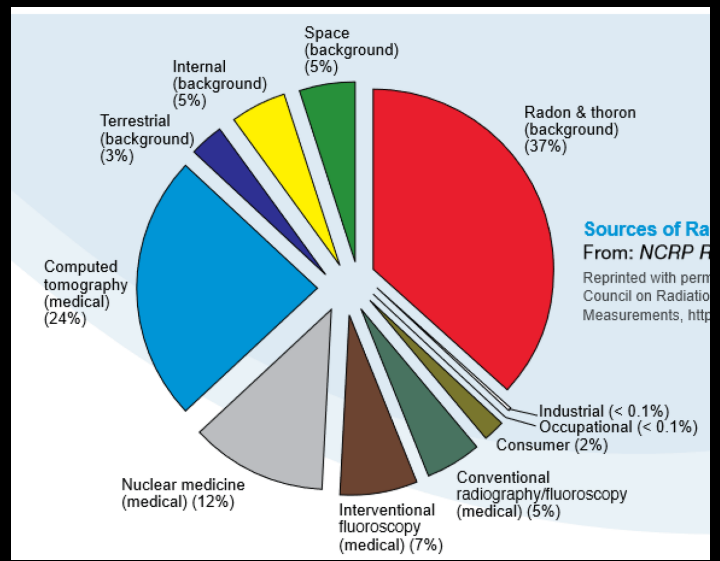
1 Background radiation

What is it?

Background radiation is the type of radiation that is present in environment and it isn't super harmful

What are the most common sources?

The most common version of background radiation is from natural gasses coming out of the ground.



2 Annual radiation dose

What is a typical annual dose?

0.0015sv/year-0.0035sv/year

What dose comes from a typical medical procedure such as an x-ray?

Chest X-ray: 0.0001 Sv

Dental x-ray: 0.00001 Sv

3 Symptoms of acute radiation exposure

compare the symptoms and duration of a dose of 1-2 Sv vs 8-10 Sv

Standard symptoms for a dose of 1-2 are vomiting and nausea, whereas, for 8-10 Sv dose, a patient will experience much more such as diarrhea, hair loss, or even bloody vomiting. Furthermore, the time to symptom onset for 8-10 Sv exposure is almost instantaneously for most symptoms, while for a 1-2 Sv dose, symptoms can take numerous hours or even weeks.



4 Explaining symptoms

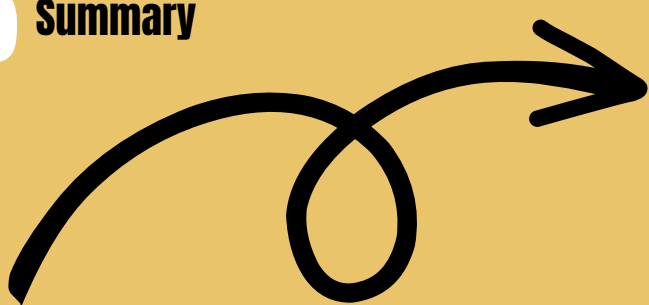
Why do radiation victims often bleed uncontrollably?

When a person is exposed to radiation, their platelet count drops which means there aren't any cells for clotting, causing spontaneous bleeding.

Why are radiation victims unable to fight infection?

Within 48 hours of exposure, victims can lose up to half their white blood cells, which are required to fight infections.

5 Summary



In short, the more exposure someone has to radiation the worse the symptoms they'll experience and the more likely they are to die.

