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ionizing radiation ionising radiation is radiation with enough energy that to remove tightly bound electrons from the orbit of an atom causing that atom to become charged or ionized here we are concerned with only one type of radiation ionizing radiation which occurs in two forms waves or particles ionizing radiation us ionising radiation in the uk including nuclear radiation consists of subatomic particles or electromagnetic waves that have sufficient energy to ionize atoms or molecules by detaching electrons from them ionizing radiation is a type of energy released by atoms in the form of electromagnetic waves or particles people are exposed to natural sources of ionizing radiation such as in soil water and vegetation as well as in human made sources such as x rays in medical devices ionizing radiation flow of energy in the form of atomic and subatomic particles or electromagnetic waves that is capable of freeing electrons from an atom causing the atom to become charged or ionized ionizing radiation includes the more energetic end of the electromagnetic spectrum and subatomic particles ionizing radiation is a well known carcinogen and ir exposure inflicts a wide spectrum of dna lesions among which the double strand break dsb is the most lethal lesion mis rejoining of ionizing radiation is a type of energy released by atoms that travels in the form of electromagnetic waves gamma or x rays or particles neutrons beta or alpha ionizing radiation can remove electrons from the atoms i e they ionizing radiation ir has been reported to elicit immunogenic apoptosis necroptosis mitotic catastrophe and senescence in order to link a cellular outcome with a particular dose of ionizing radiation is subdivided into electromagnetic radiation x rays and gamma rays and particulate radiation including neutrons and charged particles alpha and beta particles exposure to ionizing radiation comes from several

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