

RADON – OCCURRENCE AND IMPACT ON THE HEALTH

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ABSTRACT

Radon is noble, monatomic, radioactive, heavier than the air gas. It is colorless, odorless, tasteless. It exists in natural environment as a result of the decay of radium, and emits mainly α radiation and less β radiation. Residential radon concentrations vary widely by geographic area. The higher concentration of radon is expected globally in the grounds where uranium, radium and thoron are present. Radon may gather in caves, tunnels, mines as well as in other lowest-lying spaces, such as basements, and cellars. In accordance with Atomic Law (2000), the reference level for the average annual concentration of radioactive radon in rooms intended for human habitation is 300 Bq/m³. The most dangerous damages caused by ionizing radiation i.e. radon and its derivatives are changes to DNA, which may disturb the functions of cells and in the consequence lead to induction of cancer of respiratory tract, mainly of lungs and also leukaemia. So, the main consequence of exposure to high amount of radon are cancers of respiratory system. Radon enters the human organism mainly through inhaled atmospheric air. Moreover, radon significantly increased a risk of induction cancer in smokers and vice versa, smoking promotes the development of lung cancer after the exposure to radon and its derivatives. Radon may also have beneficial effect on the human body. Therefore it is used in medicine; mainly in radonbalneotherapy i.e. both treatments, rinsing the mouth and inhalation. Beneficial effects of radon confirms the validity of the theory of radiation hormesis, which assumes that low doses of radiation may stimulate the repair of DNA damage by activation of protective mechanisms, which neutralize free radicals.

Key words: radon, lung cancer, smoking, residential radon concentration, radon exposure

INTRODUCTION

Ionizing radiation, which is present in the life of our planet from the beginning of its existence, constantly accompanies man. However, the phenomenon of radioactivity is known only from the end of 19th century. In 1895 *Wilhelm Conrad Roentgen* discovered the X-rays, whereas in 1896 *Henri Becquerel* discovered natural radioactivity. Constant presence of ionizing radiation in the human environment means that it affects our body continuously. Its effects depend on a number of factors, such as size and power of dose as well as exposure time.

Ionizing radiation causes the ionization of medium through which it passes. This phenomenon consists in detaching electrons from atoms, as a result of which, in place of electrically neutral atoms, pairs of ions are formed: positive ions and released electrons. Mechanism of ionization may be direct as a result of collisions of the ionizing particle with atoms and particles of the medium, or indirect that is via other

particles which are formed by the interaction of radiation with matter or to which radiation has given its energy. Ionizing radiation causes damage to the DNA of cells, both directly by disrupting its integrity and indirectly e.g. as a result of the formation of intracellular oxygen free radicals [7, 72].

Human exposure to ionizing radiation results from two main sources: natural (radionuclides and cosmic rays) and artificial (e.g. X-rays machines, accelerators, nuclear reactors). Annual total effective dose of ionizing radiation obtained by a statistical resident of Poland in 2021 was 4.19 mSv (64% from natural and 36% from artificial sources) and has remained at a similar level for the last few years. Radon and its decay products have the greatest share in human exposure to ionizing radiation from natural sources, from which a statistical inhabitant of Poland receives a dose of 1.2 mSv/year which constitutes 28.6% of annual effective dose [66].

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