

The topic of my thesis Diseases caused by ionizing radiation have I chosen on the basis of his interest in this issue.

The observation that exposure to ionizing radiation is associated with health risks , coinciding immediately after the discovery of X-rays and radioactivity in 1895 and the 1896th already in the following year was reported by erythema and eczematous changes in the skin. very Mr. discoverer of radioactivity Becquerel in 1901 convinced about the negative effects of their own discovery when he wore 14 days in his vest pocket radio preparation which gave him couple Curie . He appeared with him at length and eczema -healing ulcer , which also confirmed and self-forearm tried P.Curie .

Already in 1902 , six years after the discovery of X-rays showed Friebe in Hamburg first tumor induced by radiation. Between 1927 and 1928 the geneticist HJ Muller reported the induction of

mutations in X-rays and genetic consequences resulting from radiation exposure .

Single and repeated radiation exposure of an appropriately high doses cause radiation syndrome with typical somatic symptoms and consequent death which probability increases with increasing dose . In the first decades of the use of ionizing radiation in diagnosis and therapy are so many rentgenologové and radiologists become demonstrably

victim initially unknown and unexplored radiation hazards . On one hand , this also reflects increasing use of radiation . On the other hand, it is evident from the delayed onset of radiation shielding , while it should be pointed out that the number of affected succumbed malignant diseases that have long been latence. Po 1935, the number of deaths is declining, despite further expand the circle of occupationally exposed persons. This decrease was result of an improved understanding of the mechanism of radiation damage and efficiency continuously

improving safeguards. Interest in the prevention of ionizing radiation developed in a time of rapid development of the use of ionizing radiation and nuclear energy in time II . World War simultaneously in several industrially developed countries .. all activities

to protect human health from the effects of ionizing radiation in the peaceful use of its resources and the

development of nuclear energy to focus on the health effects of exposure of humans and conditions

Human collectives .