



Measurements of Radon Concentration in Several Wards of the University Clinical Center of Kosovo and Determination of the Absorbed Doses to the Personnel Staff in These Wards

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Abstract: Understanding that what's the level of environment pollution from radioactive pollutant in some wards of UCCK (University Clinical Center of Kosovo) in Prishtina are made measurements of α radiation which is the product of ^{222}Rn and have been read doses of TLD to some staff workers in three wards of UCCK. All this is done to see the risk level of possible pollution. Concentration of radon ^{222}Rn is measured with device CRM-510 portable instruments. During the measurements the apparatus has recorded α particles, environment temperature, air relative humidity, and atmospheric pressure. Effective doses of TLD, samples are taken from 9 workers who operate in these environments and for three consecutive years. In review, samples are taken from 3 workers in three different wards and among them one is doctor specialized in respective field. These people are workers who work with x-rays generators. In the same places are measured quantities sources of ^{222}Rn to compare the risk level from radiation of these two categories, also during this research we considered the age of workers, as well.

Key words: radiation, radon concentration, equivalent dose.

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