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## Alpha radiation doses to the eyes of individuals wearing optical glasses

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Optical glasses are presently utilized by a great number of individuals to correct vision weakness. Two types of solid state nuclear track detectors were used for measuring uranium ( $^{238}\text{U}$ ), thorium ( $^{232}\text{Th}$ ), radon ( $^{222}\text{Rn}$ ) and thoron ( $^{220}\text{Rn}$ ) contents in various optical glasses as well as radon and thoron in air. Radiation doses to eyes of individuals due to alpha-particles emitted by the  $^{238}\text{U}$  and  $^{232}\text{Th}$  series inside the studied optical glasses and those emitted by the radon and thoron series in air were evaluated. The influence of the nature of the optical glasses as well as radon concentration in air on radiation doses received by individuals wearing optical glasses was studied. Radiation doses were found higher for persons wearing mineral optical glasses than for those wearing organic optical glasses.

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