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Biomarkers of natural alpha particles in cancerous tissue of Iraqi patients

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Abstract : This research focuses on the emission of alpha particle rate in cancerous tissue in humans using nuclear track detector (CR-39, UK)in different areas of Najaf and Basra cities. This new study shows that the pollution in the environment from the emission of alpha particles. The highest emitting alpha particle rate found to be 0.198 mBq cm⁻² in a tissue uterus, while the lowest rate of emission of alpha particles (0.122 mBq cm⁻²) is found in the pelvic muscle. This study concludes that the emission of alpha particles is a regular rate is radioactivity naturally presented in the human bodies, which are no clear increase in these measurements by comparison conducted by global research, so the cancerous tissue samples are not caused by radioactive contamination. Overall, concluded that the emission of alpha particle rates is low. This means that the samples are free of environmental pollution from the alpha particles in human tissue studied.

Keywords : Naturalalpha particles, CR-39, cancer, biomarkers.

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