BETA-DECAY ELECTRONS AGAINST CANCER

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The oncological formations occurs on the human body surface, the internal organs: lungs, stomach, kidneys, liver, prostate gland and other organs. Standard methods for the treatment of external entities — the surgical removal of the tumor, its electromagnetic radiation and gamma rays, and internal — chemical-therapeutic. Use of protons, alpha particles and heavy ions is possible in major research centers. It is obvious that heavy charged particles have advantages in comparison with electromagnetic oncological diagnostics. In St.Petersburg, freezing the tumor or irradiation with laser beams does not apply. For destruction of outer cancer tumors we applied beta-decay electrons arising from the radioactive decay of ^{137}Cs ($T_{1/2}$ = 30 years, E_{max} ~ 650 keV) from the standard set of ESGS (exemplary spectrometric gamma sources) ~ 10^5 Bq activity in combination with alcohol tincture of hemlock [1]. The tompon of hemlock served as a filter for reduce the energy of the electrons up to 50 ~ 100 keV. After unsystematic, irregular using of the hemlock with ^{137}Cs electrons for 2 months the tumor which arose as a result of the injury disappeared completely. Treatment of affected internal organs by electrons in our opinion, is possible by using selective characteristics of organs or tumors to the certain chemical elements, similar concentration of K, Ra, Sr in human bone tissue, Cs – in muscles, Ra – in the thyroid, etc. [2].

Production of a suitable formulation of a specific isotope of an element with a $T_{1/2}$ ~ hours and days and the maximum electron energy from several tens to several hundreds keV and its subsequent introduction into the body.

1. I.Samohin. Nonconventional Cancer Treatment: Shevchenko method and other methods of author. St.Petersburg: Nevsky Prospect, 2007.
2. Big Medical Encyclopedia. 3-rd edition / Ed. B.V.Petrovsky. M.: Sovetskaya Encyclopedia, 1983. V.21. P.1427.