

Production of medical radioisotopes in Russia and Prospective Isotope program in Institute of Nuclear Research.

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ABSTRACT:

Reactor and accelerator centers in Russia produce medical isotopes and develop prospective technologies. In the near future, we anticipate increased isotope production for use in nuclear medicine in Russia. The existing linear accelerator at the Institute for Nuclear Research (Moscow-Troitsk) and a prospective installation are considered to be particularly capable of providing mass production of radionuclides that can substitute, to a certain extent, for the traditional medical isotopes. In particular, new methods and technologies of production strontium-82, actinium-225 and tin-117m are considered